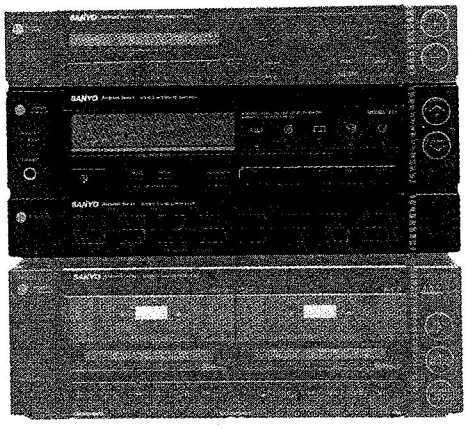
SERVICE MANUAL

SANYO

V73 (EUROPE/W. GERMANY/ITALY/SPAIN)

STEREO RECEIVER

PRODUCTION CODE NO.
129 280 00 V73 (Black)/EUROPE
129 280 01 V73 (Black)/W. GERMANY
129 280 03 V73 (Black)/ITALY
129 280 04 V73 (Black)/SPAIN



SPECIFICATIONS

Note:
The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

AMPLIFIER

Continuous output power	35 W x 2 (at 8 ohms, 0.9% distortion)
Input sensitivity and impedance	PHONO: 2.5 mV/47 kohms VIDEO/CD/TAPE PLAY: 150 mV/47 kohms
Frequency response	20 Hz – 35 kHz (CD)
Graphic equalizer	±10 dB (63/250/1000/4000/16000 Hz)
Bass boost response	+8 dB (100 Hz)
Signal to noise ratio	95 dB (CD)

TUNER

FM section

Frequency range	87.5 – 108 MHz (0.05 MHz steps)
Usable sensitivity	1.5 μV (mono)
Signal to noise ratio (1 mV ANT.)	65 dB (mono)
Harmonic distortion (1 kHz)	0.3% (mono)
Frequency response	30 Hz – 15 kHz (+1/–2 dB)
Stereo separation (1 kHz)	40 dB
Aerial input	75 ohms unbalanced

AM (MW/LW) section

Frequency range	MW: 522 – 1611 kHz LW: 144 – 290 kHz
Sensitivity	MW: 500 μV/m, LW: 1000 μV/m

GENERAL

Power requirements	AC: 220 V, 50 Hz
Power consumption	180W (EUROPE/W.GERMANY/SPAIN) 190W (ITALY)
Dimensions (W x D x H)	Approx. 335 x 270 x 195 mm (13-1/4" x 10-5/8" x 7-5/8")
Weight	Approx. 5 kg (11 lbs.)

Specifications subject to change without notice.

A11400

REFERENCE NO. WM-21517

GENERAL ADJUSTMENT CONDITION

1. Power source voltage is DC12V.
2. Use a screw driver with plastic grip for all adjustment.
3. Signal input must be kept as low as possible to avoid overload.
4. Use an output meter of the highest possible sensivity.
5. Tuner adjustment should be made after the clock adjustment.

(1) FM Band

- Set BAND switch in the FM position.

* FM-SG: Standard modulation frequency, 1,000Hz; frequency deviation, ±75kHz dev.

ADJUSTING CIRCUIT		FREQUENCY INDICATED POSITION	INPUT CONDITION			OUTPUT CONDITION		ADJUSTING POINT	ADJUSTING PROCEDURE
			MEASURING INSTRUMENT	FREQUENCY	CONNECT. POINT	MEASURING INSTRUMENT	CONNECT. POINT		
I. F.	V-curve	98MHz	FM sweep Generator	10.7MHz (nonmodulation)	TP103 Ⓗ TP104 Ⓔ	FM sweep Generator	TP203 Ⓗ TP205 Ⓔ	T201	• Match to the frequency of ceramic filter. • Adjust so that the symmetrical wave from becomes the maximum.
	S-curve	98MHz	FM sweep Generator	10.7MHz (nonmodulation)	TP103 Ⓗ TP104 Ⓔ	FM sweep Generator	TP204 Ⓗ TP205 Ⓔ	T202	• Match to the frequency of ceramic filter. • Adjust so that the symmetrical wave from becomes the maximum.
Covering frequency	HIGH	108.0MHz (High end)	—	—	—	Digital voltmeter	TP402 Ⓗ TP102 Ⓔ	L104	• Adjust so that the digital voltmeter indication becomes 8.0 ± 0.05V.
	LOW	87.5MHz (Low end)	—	—	—	Digital voltmeter	TP402 Ⓗ TP102 Ⓔ		• Confirm so that the digital voltmeter indication becomes approx. 1.3~1.5V.
Tracking frequency	LOW	90.0MHz	FM-SG	90.0MHz (20dB)	FM antenna terminal (75Ω)	VTVM Oscilloscope	Output plug	L101 L102	• Adjust so that the output wave form becomes the maximum.
	HIGH	106.0MHz	FM-SG	106.0MHz (20dB)	FM antenna terminal (75Ω)	VTVM Oscilloscope	Output plug	CT101	• Adjust so that the output wave form becomes the maximum.
I. F. (distortion factor)		98.0MHz	FM-SG	98.0MHz 66dB	TP103 (H) TP104 (E)	Digital voltmeter	TP201 Ⓗ TP202 Ⓔ	T202	• Tune exactly, and adjust so that the digital voltmeter indication becomes 0 ± 0.02V.
S. D. (Station Detector)		98.0MHz	FM-SG	98.0MHz 23dB	TP103 (H) TP104 (E)	Digital voltmeter	TP207 Ⓗ TP205 Ⓔ	SVR201	• Tune exactly, and adjust so that the digital voltmeter indication becomes less than 2V.
VCO (19kHz)		98.0MHz	FM-SG	98.0MHz 66dB (nonmodulation)	FM antenna terminal (75Ω)	VTVM Oscilloscope Counter	TP301 Ⓗ TP302 Ⓔ	SVR302	• Turn SVR-302 to the position where the STEREO indicator lights up, and stop it there. • Tune exactly at non-moduration, and adjust so that the counter value becomes 19.00 ± 0.05kHz.
Separation (Stereo mode)		98.0MHz	FM-SG STEREO MODULATOR	98.0MHz 66dB	TP103 (H) TP104 (E)	VTVM Oscilloscope	Tuner out (L or R) (E)	SVR301	• Adjust so that the leakage currents of the right and left channels are minimized in good balance.

STEREO MODULATOR: Frequency deviation Main signal — ±67.5 kHz dev.
Pilot signal — ±6.75 kHz dev.

(2) MW Band

- Set BAND switch in the MW position.

* AM-SG: Standard modulation frequency, 400Hz; percentage 30% modulation.

ADJUSTING CIRCUIT		FREQUENCY INDICATED POSITION	INPUT CONDITION			OUTPUT CONDITION		ADJUSTING POINT	ADJUSTING PROCEDURE
			MEASURING INSTRUMENT	FREQUENCY	CONNECT. POINT	MEASURING INSTRUMENT	CONNECT. POINT		
I.F.		Lower limit at 999kHz	AM sweep Generator	459kHz nonmodulation	TP105 Ⓗ TP106 Ⓔ	AM sweep Generator	TP206 Ⓗ TP205 Ⓔ	T203	• Match to the frequency of ceramic filter. • Adjust so that the symmetrical wave form form becomes the maximum.
Covering frequency	LOW	522kHz (Low end)	—	—	—	Digital voltmeter	TP402 Ⓗ TP102 Ⓔ	L151	• Adjust so that the digital voltmeter indication becomes 1.3 ± 0.03V.
	HIGH	1611kHz (High end)	—	—	—	Digital voltmeter	TP401 Ⓗ TP1 Ⓔ	CT151	• Adjust so that the digital voltmeter indication becomes 8 ± 0.05V.
Tracking frequency	LOW	603kHz	AM-SG	603kHz 75dB	IRE loop antenna	VTVM Oscilloscope	Output plug	L152	• Adjust so that the output value becomes the maximum.
	HIGH	1404kHz	AM-SG	1404kHz 75dB	IRE loop antenna	VTVM Oscilloscope	Output plug	CT152	• Adjust so that the output value becomes the maximum.
S. D. (Station Detector)		999kHz	AM-SG	1000kHz 85dB	IRE loop antenna	Digital voltmeter	TP207 Ⓗ TP205 Ⓔ	SVR202	• Tune exactly, and adjust so that the digital voltmeter indication becomes less than 4V.

(3) LW Band

- Set BAND switch in the LW position.

ADJUSTING CIRCUIT		FREQUENCY INDICATED POSITION	INPUT CONDITION			OUTPUT CONDITION		ADJUSTING POINT	ADJUSTING PROCEDURE
			MEASURING INSTRUMENT	FREQUENCY	CONNECT. POINT	MEASURING INSTRUMENT	CONNECT POINT		
Covering frequency	LOW	Lower limit	AM-SG	144kHz	AM loop antenna	Digital voltmeter	TP402 Ⓗ TP102 Ⓔ	L153	• Adjust so that the digital voltmeter indication becomes 1.6 ± 0.03V.
	HIGH	Upper limit	AM-SG	290kHz	AM loop antenna	Digital voltmeter	TP402 Ⓗ TP102 Ⓔ	CT153	• Adjust so that the digital voltmeter indication becomes 7.0 ± 0.1V.
Tracking frequency	LOW	162kHz	AM-SG	162kHz	AM loop antenna	VTVM Oscilloscope	Output plug	L154	• Adjust so that the output value becomes the maximum.
	HIGH	279kHz	AM-SG	279kHz	AM loop antenna	VTVM Oscilloscope	Output plug	CT154	• Adjust so that the output value becomes

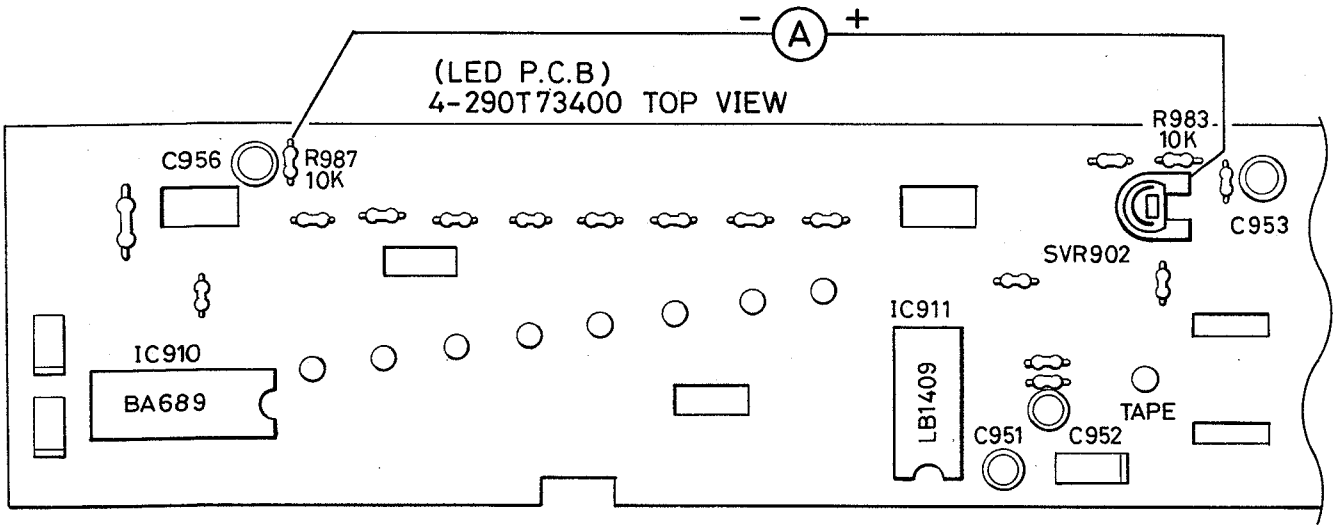
ADJUSTMENTS

INPUT LEVEL METER ADJUSTMENT

CONDITONS

a. MAIN VR : MIN
b. BALANCE VR : CENTER
c. EQ VR : CENTER
d. MODE SW : STEREO
e. NO signal

Adjust SVR 902 to become 60 mV at A .



CLOCK ADJUSTMENT

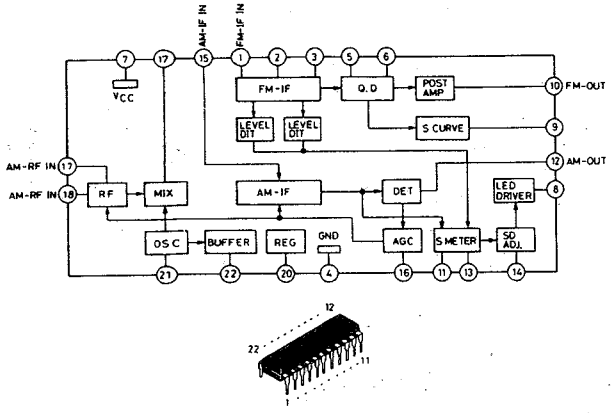
(1) Connect the Frequency Counter to TP401 and TP102 on the P.C.Board.
(2) Function SW: FM mode
Tuning Indication: 87.5 MHz

Adjust CT401 so that the Frequency Counter indicates [2MHz ± 100Hz].

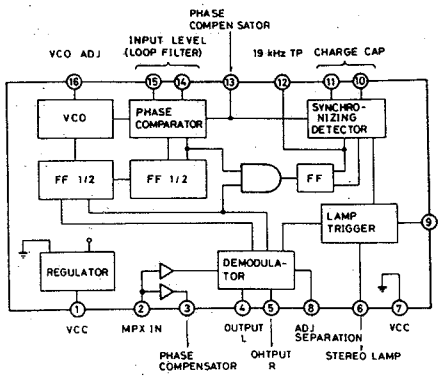
Note: Frequency Counter: High impedance Input, more than 1 MOHM.

IC BLOCK DIAGRAM

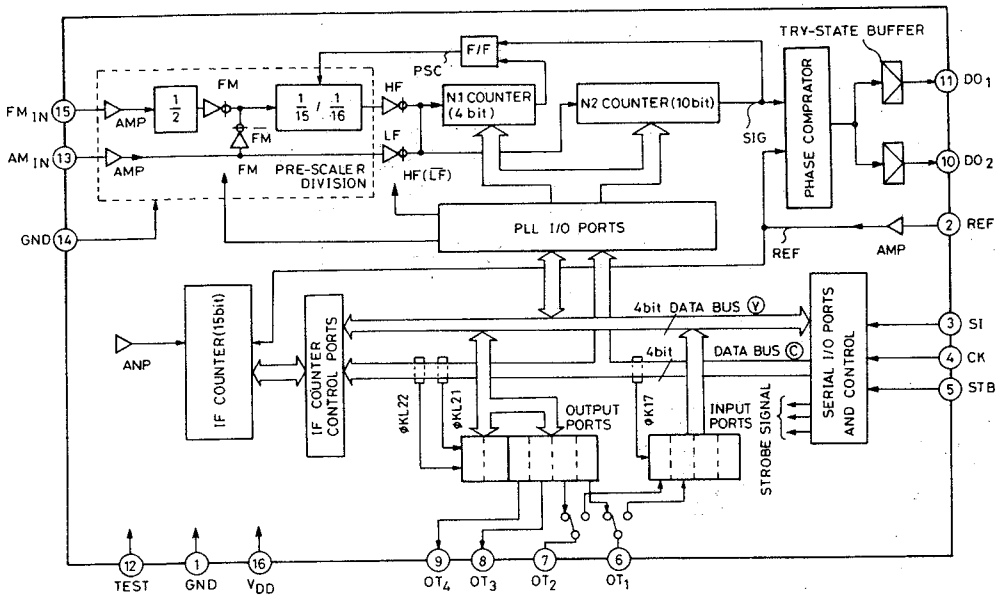
IC201 LA1265 (TUNER SYSTEM)

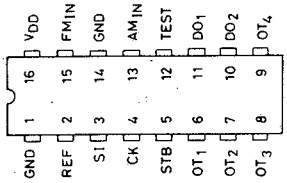


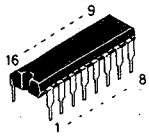
IC301 LA3361 (FM PLL-MPX STEREO DEMODULATOR)



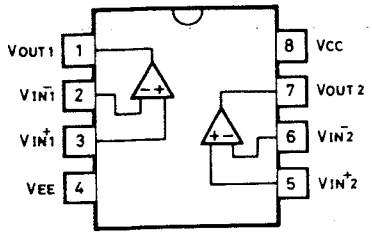
IC402 TC9172P (HIGH–SPEED PLL WITH PRE–SCALER)

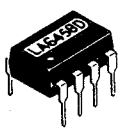




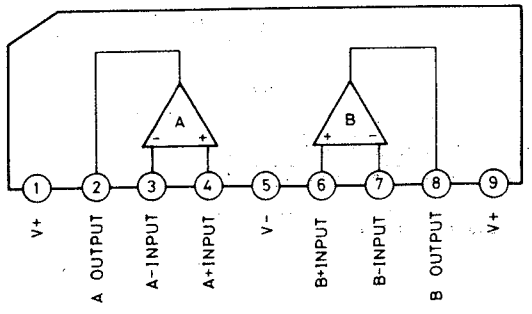


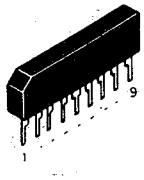
IC701 LA6458DS





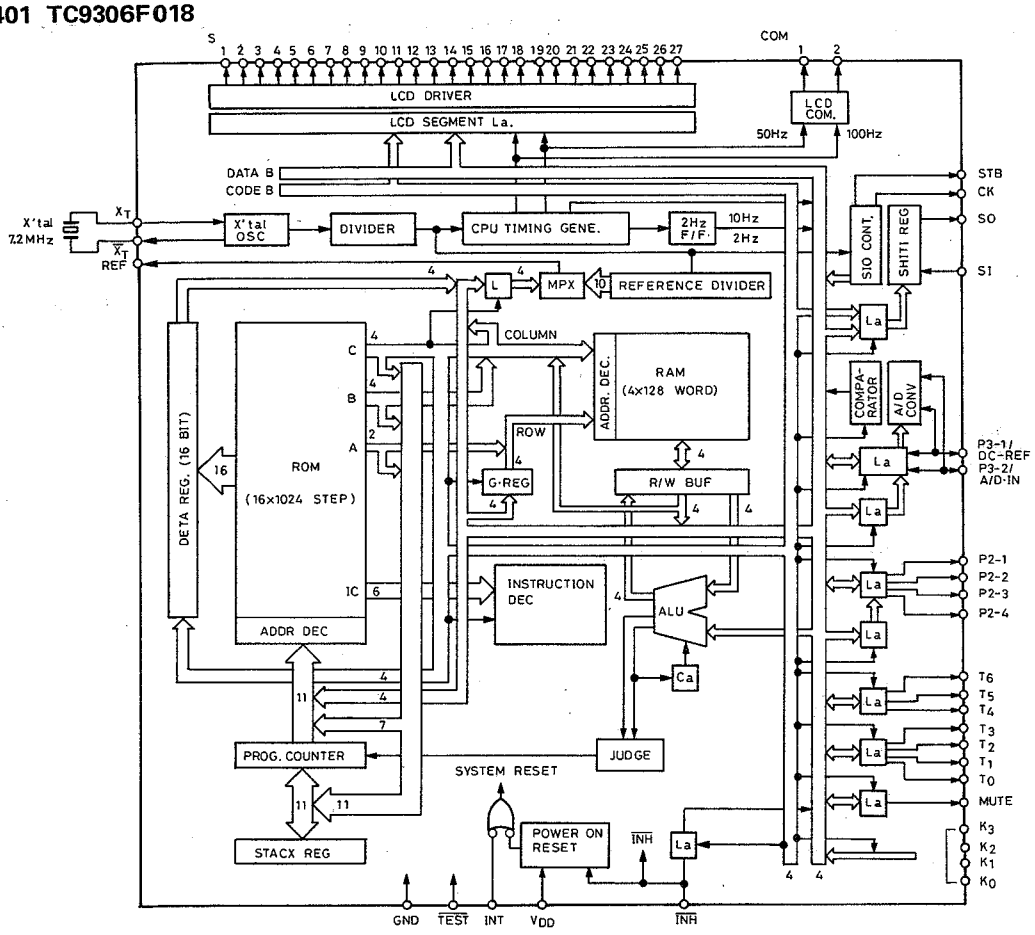
IC721 LA6458S

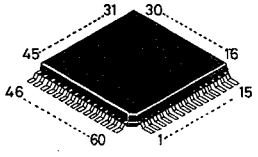


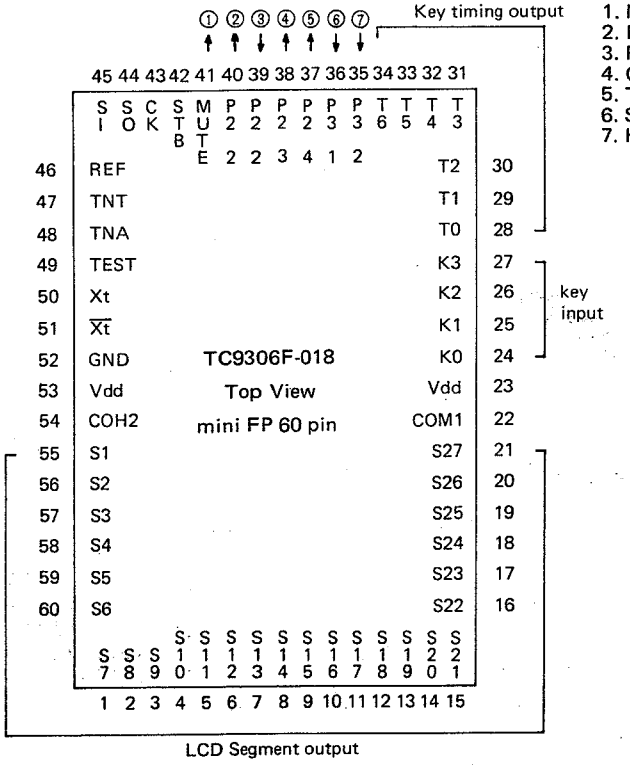


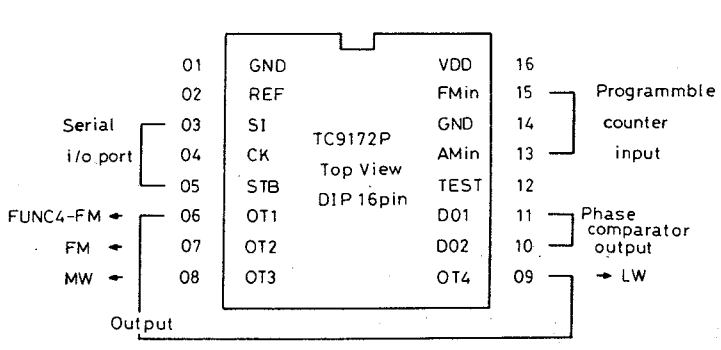
IC BLOCK DIAGRAM

IC401 TC9306F018









IC BLOCK DIAGRAM

SYSTEM SUMMARY (TC 9302AF-019)

Combined with PLL LSI TC 9172P, high efficiency digital tuning system with FM/MW/LW 3-band can be made.

BAND

BAND	CODE A	CODE B	FREQUENCY (Hz)	STEP (Hz)	Fref (Hz)	IF (Hz)	CLOCK
FM	0	0	87.9 ~ 107.9 M	200K	25K	+10.7M	AM 12H PM
	1	0	87.50 ~ 108.00 M	50K			
	0	1	76.0 ~ 90.0 M	100K		−10.7M	
	1	1	87.4 ~ 108.1 M	50K		+10.7M	24H
MW	0	0	530 ~ 1600 K	10K	10K	+450K	AM 12H PM
	1	0	531 ~ 1602 K	9K	9K	+459K	
	0	1	522 ~ 1611 K				
	1	1	522 ~ 1629 K				
LW	0	0	LW NO BAND	—	—	—	
	1	0	153 ~ 281 K	AUTO MAN 9K/1K		+450K	AM/FM 12H
	0	1	144 ~ 290 K			+459K	24H
	1	1	144 ~ 290 K			+450K	AM/FM 12H

I/O PORT

TC9306F-018

PORT	NO.	NAME	FUNCTION	ACTIVE	FIRST SETTING
MUTE	41	MUTE	MUTE OUTPUT	H	H
P2-1	40	REQEST	REMO DATA INPUT	H	L
P2-2	39	DATA	REMO REQEST OUTPUT	H	–
P2-3	38	CHANGE	CHANGE OUTPUT	H	L
P2-4	37	TIMER	TIMER ON OUTPUT		
P3-1	36	STEREO	STEREO INPUT	L	–
P3-2	35	KEY-4	K4 INPUT	–	–

TC9172P

PORT	NO.	NAME	FUNCTION	ACTIVE	FIRST SETTING
OT 1	06	FM	FM BAND OUTPUT	H	H
OT 2	07	AM (MW, LW)	LW, MW OUTPUT	H	L
OT 3	08	MW	MW BAND OUTPUT	H	L
OT 4	09	LW	LW BAND OUTPUT	H	L

IC BLOCK DIAGRAM

Function of terminals

Pin No.	Symbol	Name	Function
22 54	COM1 COM2	LCD common output	These are output terminals for commun signal to LCD. It is possible to display maximum 54 segment at matrix of S1 – S27. Three levels of VDD, 1/2VDD and GND at 5ms intervals is output with 50Hz cycle from these terminals.
55 ~ 60 1 ~ 21	$S_1 \sim S_6$ $S_7 \sim S_{27}$	LCD segment output	These are output terminals of segment signal. It is possible to display maximum 54 segment of matrix of CCM1 and CCM2.
24 ~ 27	$K_0 \sim K_3$	Key input port	These are 4-bit input port for key matrix input. All these terminals have pull down resistor themselves. Usually, $T_0 \sim T_7$ output ports are used for key return timing signal output.
28 ~ 34	$T_0 \sim T_6$	Key timing output port	These are output ports for 4-bit ($T_0 \sim T_3$) and 3-bit ($T_4 \sim T_6$). Usually, these are used for key return timing signal output of key matrix.
35 36	P3–2 /A/D.IN P3–1 /DC. REF	I/O port 3 A–D /analogue voltage input /standard voltage input	These are I/O ports of 2-bit. The port can designate output and input at every 1 bit and the designation can be made depend on contents of inner port called PORT-3 I/O CONTROL. Also, these terminals are used for analogue input of built-in 4-bit A/D converter. Change control to A/D converter input is made depend on contents of PORT-3 I/O CONTROL port. Built-in A/D converter is controlled by program of random comparation system, P3-1 is for standard voltage input and P3-2 is for analogue comparate input.
37 ~ 40	P2–4 P2–1	I/O port-2	These terminals are 4-bit I/O ports. The port can designate the output and input at every 1 bit and designation can be made depend on contents of inner port called PORT-2 I/O CONTROL.
41	MUTE	Muting signal output port	This terminal is for 1 bit output port and usually used for muting control signal output. Note: When $\overline{INH}$ input is changing "H" to "L" or "L" to "H" alternately, output will automatically be set to "H" level.
42 43 44 45	STB CK SO SI	Strobing pulse output Serial clock output Serial data output Serial data input	These terminals are for serial interface. It can control an external PLL LSI or optional IC by SIO command. Serial transmission mode of $\overline{NCD}$/NCD can be selected by the program.
46	REF	Reference Frequency Signal output	This is output terminal for standard frequency signal to PLL LSI. Eight kind of 1kHz, 5kHz, 9kHz, 10kHz, 12.5kHz, 25kHz, 50kHz and 100kHz standard frequency signal can be selected by the program. Note: When $\overline{INH}$ is in "L" level, output is automatically fixed to "L" level.
47	$\overline{INT}$	Initialize input	This is input terminal for system reset signal of device. When $\overline{INT}$ is in "L" level, device will be reset. When INT are "H" level, program starts from "0". This terminal is used in "H" level setting because usually, when 0V → 4.5V voltage is applied to V_{DD}, device will be reset (power on reset). Note: After system reset, I/O port is set to input mode but output port is instable, therefore, initialize the program depend on condition if needed.

IC BLOCK DIAGRAM

Pin No.	Symbol	Name	Function
48	$\overline{INH}$	Inhibit input	This is input port for signal selection of radio mode. It judges "radio on" by "H" level input and "radio off" by "L" level input. When this terminal is in "L" level, reference output is automatically fixed to "L" level.
49	TEST	Test mode control input	This is input terminal for test mode control. It becomes test mode at "H" level and normal mode at "L" level or NC condition. This terminal has pull down resistor itself and usually it is set to NC or "L" level.
50 51	X_T X_T	X'tal OSC terminal	This is connection terminal for X'tal. Connect 7.2MHz X'tal to this terminal.
52	GND	GND terminal	This is ground terminal of device.
23 53	V_{DD}	Power supply terminal	These are terminals for V_{DD}. Usually applies 5V ± 10% to this terminals. Voltage can be reduced to 2V for back up condition. Also, when 0V → 4.5V is applied to these terminals, device will be in system reset and program start from "0". Note: Make power on reset at the "L" level (= $\overline{INH}$) condition.

PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	141-6-133T-95200	INNER CORR CASE, (EUROPE)
or	141-6-133T-95201	INNER CORR CASE (W.GERMANY)
or	141-6-133T-95202	INNER CORR CASE (ITALY)
or	141-6-133T-95203	INNER CORR CASE, (SPAIN)
	141-6-145T-26200	FOAM PLASTIC CASE
	141-6-235T-50601	INNER POLYE LAMINA COVER, 500X600
or	141-6-235T-50605	INNER POLE LAMINA COVER, 500X600H
	141-6-409T-53000	INST MANUAL, (EUROPE)
or	141-6-409T-53001	INST MANUAL (W.GERMANY)
or	141-6-409T-53003	INST MANUAL (ITALY)
or	141-6-409T-53004	INST MANUAL, (SPAIN)
	141-6-231T-20300	INNER POLYE COVER
	RB73(BK)/SS++	
	4-245T-00700	ANT

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-122T-71000	FRONT PANEL ASSY
2	141-0-111T-76300	CABINET ASSY
6	141-0-125T-47100	BOTTOM LID ASSY
7	141-2-160T-93700	PUSH BUTTON, PRESET 1
8	141-2-160T-93701	PUSH BUTTON, PRESET 2
9	141-2-160T-93702	PUSH BUTTON, PRESET 3
10	141-2-160T-93703	PUSH BUTTON, PRESET 4
11	141-2-160T-93704	PUSH BUTTON, PRESET 5
12	141-2-160T-93705	PUSH BUTTON, PRESET 6
13	141-2-160T-93401	PUSH BUTTON, TU. MODE SW
14	141-2-160T-93600	PUSH BUTTON, CLOCK
15	141-2-464T-14400	FIXER
16	141-2-114T-06703	BACK PANEL, (ITALY)
or	141-2-119T-06700	BACK PANEL, (EUROPE)
or	141-2-119T-06701	BACK PANEL, (W.GERMANY)
or	141-2-119T-06704	BACK PANEL, (SPAIN)
17	141-2-160T-93505	PUSH BUTTON, TAPE
18	141-2-160T-93504	PUSH BUTTON, CD
19	141-2-160T-93503	PUSH BUTTON, TUNER
20	141-2-160T-93502	PUSH BUTTON, VIDEO
21	141-2-160T-93500	PUSH BUTTON, PHONO
22	141-2-160T-93501	PUSH BUTTON, BAND SW
23	141-0-160T-92402	PUSH BUTTON ASSY, POWER SW
24	141-2-160T-09703	PUSH BUTTON, SPEAKER SW
25	141-2-329T-11700	REFLECTOR, LCD
26	141-2-310T-97401	BRACKET, IC
27	141-0-160T-92301	PUSH BUTTON ASSY, TUNING UP
28	141-0-160T-92302	PUSH BUTTON ASSY, TUNING DOWN
29	141-0-160T-92303	PUSH BUTTON ASSY, VOLUME UP
30	141-0-160T-92304	PUSH BUTTON ASSY, VOLUME DOWN
31	141-2-210T-70801	BRACKET, LOOP ANT
32	141-2-160T-93400	PUSH BUTTON, MODE SW
33	141-2-247T-82302	SHEET
34	141-2-132T-30400	SIGN WINDOW, LCD
35	141-2-315T-35200	REINFORCEMENT
36	141-2-290T-02300	BRACKET, TU PCB
37	141-2-290T-34200	BRACKET
38	141-2-210T-89200	BRACKET
39	141-2-210T-89300	BRACKET, FUNCTION LED
40	141-2-164T-51800	SLIDE KNOB, EQUALIZER
41	141-2-210T-89100	BRACKET, EQUALIZER
42	141-2-310T-68404	BRACKET
43	141-2-310T-68504	BRACKET
	141-2-184T-05000	TAPE

FIXING PARTS

Ref. No.	Part No.	Description
Y1	411 021 6405	SCR S-TPG BIN 3X8
Y2	411 020 9902	SCR S-TPG BRZ + FLG 3X8
Y3	411 021 5705	SCR S-TPG BIN 3X6 (ITALY)
or	411 001 1901	SCR S-TPG BIN 3X6 (EUROPE/W.GERMANY/SPAIN)
Y4	411 021 9604	SCR S-TPG BIN 4X8 (ITALY)
or	411 001 4209	SCR S-TPG BIN 4X8 (EUROPE/W.GERMANY/SPAIN)
Y5	411 020 9803	SCR S-TPG BRZ + FLG 3X6
Y6	411 022 2802	SCR S-TPG FLT 3X10
Y7	412 005 2307	SPECIAL SCREW
Y8	411 021 3503	SCR S-TPG BIN 3X10
Y9	411 021 6603	SCR S-TPG BIN 3X8
Y10	412 003 2804	SPECIAL SCREW
Y11	411 008 0402	WASHER OUT TW 3
Y12	411 105 9704	WASHER Z 3X10X1

ELECTRICAL PARTS

Ref. No.	Part No.	Description
67	⚠ 4-320T-21900	P.T, (EUROPE/W.GERMANY)
or	⚠ 4-320T-22700	P.T. (SPAIN/ITALY)
68	⚠ 4-243T-84973	POWER CORD
69	4-290T-74500	P.C BOARD, P.T PRIMARY
72	141-2-368T-30001	HEAT SINK
75	4-269T-00113	LOOP ANT ASSY (EUROPE/W.GERMANY/SPAIN)
or	4-269T-00114	LOOP ANT ASSY, (ITALY)
76	4-290T-74600	P.C BOARD
77	⚠ 4-320T-33700	P.T. (EUROPE/W.GERMANY)
or	⚠ 4-320T-36700	P.T. (SPAIN/ITAY)
	4-237T-09990	TERMINAL BOARD
	4-240T-47674	SOCKET, 4P
	4-240T-83573	SOCKET, 3P
	4-240T-83574	SOCKET, 4P
	4-267T-17172	SOCKET, 2P
	4-267T-17173	SOCKET, 3P
	4-267T-17175	SOCKET, 5P
	4-267T-17176	SOCKET, 6P
	4-267T-17178	SOCKET, 8P
	4-267T-17180	SOCKET, 10P
	4-240T-47673	SOCKET, 3P TO MAIN
	4-267T-17177	SOCKET, 7P
	4-267T-54283	SOCKET, 2P 200MM
	4-267T-54387	SOCKET, 3P 400MM
	4-267T-54388	SOCKET, 3P 450MM
	4-267T-54588	SOCKET, 5P 450MM

PARTS LIST

Ref. No.	Part No.	Description
	4-267T-54685	SOCKET, 6P 300MM
	4-267T-54885	SOCKET, 8P 300MM
	4-267T-51783	SOCKET, 3P 200MM
	4-267T-54287	SOCKET, 2P 400MM
	4-267T-55087	SOCKET, 10P 400MM
F701	⚠ 4-234T-11089	FUSE, 250V 2.5A
F801	⚠ 4-234T-11089	FUSE, 250V 2.5A
F901	⚠ 4-234T-11084	FUSE, 250V 2.5A

PHONO P.C.B ASSY (W.GERMANY)

Ref. No.	Part No.	Description
50	141-4-290T-73201	P.C BOARD ASSY, PHONO (W.GERMANY)

PHONO P.C.BOARD ASSY (EUROPE/SPAIN)

Ref. No.	Part No.	Description
50	141-4-290T-73200	P.C BOARD ASSY, PHONO (EUROPE/SPAIN)
or	141-4-290T-73202	P.C BOARD ASSY, PHONO (ITALY)
	4-267T-68200	SOCKET, 6P RCA CD TAPE
	4-267T-68171	SOCKET, 2P RCA PHONO
	4-267T-68100	SOCKET, 2P RCA VCR
	4-236T-17900	PLUG, 3P PLAYER DC
	4-236T-17971	PLUG, 4P CD
	4-236T-32273	PLUG, IR
	4-236T-32276	PLUG, LED
	4-236T-32278	PLUG
	4-240T-18504	SOCKET, TO MAIN
	4-240T-18506	SOCKET, TO MAIN
X901	4-266T-01700	SERAMIC RESONATOR
IC701	409 018 4503	IC LA6458DS
IC702	409 022 3608	IC LC7818
IC703	409 121 0102	IC LC6527C-3388, U PROCESSOR
Q905	405 019 4108	TR 2SC536-G-AUD-NP
Q907	405 019 4108	TR 2SC536-G-AUD-NP
Q908	405 019 4108	TR 2SC536-G-AUD-NP
Q909	405 023 5306	TR 2SD400-F-MP
Q910	405 019 4108	TR 2SC536-G-AUD-NP
Q990	405 006 7709	TR 2SA999-F
D900	407 007 9904	DIODE GMA01
D901	407 053 6704	ZENER DIODE MTZ5.6B
D920	407 053 6704	ZENER DIODE MTZ5.6B
D921	407 005 4505	DIODE DS442X
D922	407 007 9904	DIODE GMA01
D923	407 005 4505	DIODE DS442X (EUROPE/SPAIN)
or	407 007 9904	DIODE GMA01 (ITALY)
D928	407 007 9904	DIODE GMA01
D960	407 007 9904	DIODE GMA01
D961	407 007 9904	DIODE GMA01
D962	407 005 4505	DIODE DS442X
D963	407 005 4505	DIODE DS442X
D964	407 007 9904	DIODE GMA01
D965	407 007 9904	DIODE GMA01
D966	407 007 9904	DIODE GMA01
D967	407 007 9904	DIODE GMA01
D974	407 007 9904	DIODE GMA01
D975	407 050 5502	ZENER DIODE GZA5.6Y
D976	407 007 9904	DIODE GMA01
C701	403 047 0109	ELECT 4.7U M 25V
C702	403 038 8800	ELECT 33U M 6.3V
C703	403 075 4308	CERAMIC 820P K 50V
C704	403 018 8509	CERAMIC 220P K 50V
C705	403 003 9405	CERAMIC 4700P K 25V
C706	403 003 0600	CERAMIC 0.018U K 25V
C707	403 106 1603	NP-ELECT 1U Q 50V
C801	403 047 0109	ELECT 4.7U M 25V
C802	403 038 8800	ELECT 33U M 6.3V
C803	403 075 4308	CERAMIC 820P K 50V
C804	403 018 8509	CERAMIC 220P K 50V
C805	403 003 9405	CERAMIC 4700P K 25V
C806	403 003 0600	CERAMIC 0.018U K 25V
C807	403 106 1603	NP-ELECT 1U Q 50V
C900	403 049 0305	ELECT 1U M 50V
C927	403 049 0305	ELECT 1U M 50V
C928	403 041 9009	ELECT 10U M 16V
C929	403 043 9304	ELECT 47U M 16V
C930	403 043 9304	ELECT 47U M 16V
C932	403 049 0305	ELECT 1U M 50V
C934	403 060 8205	POLYESTER 0.033U K 50V
C937	403 009 8105	CERAMIC 100P K 50V
C938	403 009 8105	CERAMIC 100P K 50V
C941	403 044 1703	ELECT 470U M 16V
C960	403 018 8509	CERAMIC 220P K 50V
C961	403 009 8105	CERAMIC 100P K 50V
C962	403 039 6904	ELECT 100U M 10V
C971	403 047 0109	ELECT 4.7U M 25V
or	403 047 0109	ELECT 4.7U M 25V
C990	403 069 8404	CERAMIC 0.01U Z 50V
C991	403 038 9708	ELECT 330U M 6.3V
C992	403 069 8404	CERAMIC 0.01U Z 50V
R701	401 024 7004	CARBON 1K JA 1/6W
R702	401 027 0309	CARBON 47K JA 1/6W
R703	401 026 3905	CARBON 330 JA 1/6W
R704	401 025 1902	CARBON 15K JA 1/6W
R705	401 026 1604	CARBON 270K JA 1/6W
R706	401 027 2303	CARBON 560 JA 1/6W
R707	401 024 7707	CARBON 100K JA 1/6W
R780	401 012 7009	CARBON 10K JA 1/4W
R781	401 012 7009	CARBON 10K JA 1/4W
or	401 012 7009	CARBON 10K JA 1/6W
R782	401 026 9907	CARBON 4.7K JA 1/6W
or	401 027 0309	CARBON 47K JA 1/6W
R801	401 024 7004	CARBON 1K JA 1/6W
R802	401 027 0309	CARBON 47K JA 1/6W
R803	401 026 3905	CARBON 330 JA 1/6W
R804	401 025 1902	CARBON 15K JA 1/6W
R805	401 026 1604	CARBON 270K JA 1/6W
R806	401 027 2303	CARBON 560 JA 1/6W
R807	401 024 7707	CARBON 100K JA 1/6W
R902	401 024 7400	CARBON 10K JA 1/6W
R903	401 012 7009	CARBON 10K JA 1/4W
R907	401 024 7400	CARBON 10K JA 1/6W
R908	401 025 7805	CARBON 2.2K JA 1/6W
R910	401 024 7400	CARBON 10K JA 1/6W
R920	402 023 2700	FUSIBLE RES 100 G- 1/4W
R921	401 018 3807	CARBON 3.3K JA 1/4W
R928	401 020 2904	CARBON 47K JA 1/4W
R933	401 024 7707	CARBON 100K JA 1/6W
R934	401 024 7707	CARBON 100K JA 1/6W
R935	401 024 7707	CARBON 100K JA 1/6W
R936	401 024 7707	CARBON 100K JA 1/6W
R940	401 024 8001	CARBON 1M JA 1/6W
R941	401 024 7707	CARBON 100K JA 1/6W
R942	401 026 9907	CARBON 4.7K JA 1/6W
R945	401 012 7009	CARBON 10K JA 1/4W
R946	401 012 7009	CARBON 10K JA 1/4W
R947	401 012 8105	CARBON 100K JA 1/4W
R948	401 024 7400	CARBON 10K JA 1/6W
R958	401 012 7009	CARBON 10K JA 1/4W
R959	401 025 8703	CARBON 220K JA 1/6W
R977	401 014 5201	CARBON 15K JA 1/4W
R978	401 012 7009	CARBON 10K JA 1/4W
R990	401 012 8105	CARBON 100K JA 1/4W
R991	401 012 8105	CARBON 100K JA 1/4W
R992	401 024 7707	CARBON 100K JA 1/6W
R993	401 024 7707	CARBON 100K JA 1/6W
R994	401 027 0309	CARBON 47K JA 1/6W
R995	401 012 7009	CARBON 10K JA 1/4W
R996	401 012 7009	CARBON 10K JA 1/4W
R997	401 012 5708	CARBON 1K JA 1/4W

FUNCTION SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
51	141-4-290T-73300	P.C BOARD ASSY, FUNCTION SWITCH (EUROPE/W.GERMANY/SPAIN)
51-1 or	141-4-290T-73302	P.C BOARD ASSY, FUNCTION SW (ITALY)
	4-248T-46800	SWITCH

LED P.C.BOARD ASSY

Ref. No.	Part No.	Description
52	141-4-290T-73400	P.C BOARD ASSY, LED (EUROPE/W.GERMANY/SPAIN)
or	141-4-290T-73402	P.C BOARD ASSY, LED (ITALY)
SW4	4-238T-70873	SWITCH
SW5	4-238T-70873	SWITCH
SVR902	4-220T-19472	SEMI V.R
or	4-222T-97572	VR
IC910	409 128 3601	IC BA689
IC911	409 020 1507	IC LB1409
Q980	405 019 4108	TR 2SC536-G-AUD-NP
D940	407 093 9901	LED SLZ-165B-04-B, H=23.5
D941	407 094 0501	LED SLZ-265B-04-B, H=17.5
D942	407 094 0501	LED SLZ-265B-04-B, H=17.5
D943	407 094 0501	LED SLZ-265B-04-B, H=17.5
D944	407 094 0501	LED SLZ-265B-04-B, H=17.5
D950	407 094 0204	LED SLZ-165B-05-B, H=17.5
D951	407 094 0204	LED SLZ-165B-05-B, H=17.5
D952	407 094 0204	LED SLZ-165B-05-B, H=17.5
D953	407 094 0204	LED SLZ-165B-05-B, H=17.5
D954	407 094 0204	LED SLZ-165B-05-B, H=17.5
D955	407 094 0204	LED SLZ-165B-05-B, H=17.5
D956	407 094 0204	LED SLZ-165B-05-B, H=17.5
D957	407 094 0204	LED SLZ-165B-05-B, H=17.5
C951	403 049 0305	ELECT 1U M 50V
C952	403 049 0305	ELECT 1U M 50V
C953	403 042 0302	ELECT 10U M 16V
C954	403 042 0302	ELECT 10U M 16V
C956	403 042 0302	ELECT 10U M 16V (EUROPE/W.GERMANY/SPAIN)
or	403 043 9304	ELECT 47U M 16V (ITALY)
C980	403 042 0302	ELECT 10U M 16V
R791	401 026 7408	CARBON 39K JA 1/6W
R792	401 026 7408	CARBON 39K JA 1/6W
R793	401 024 7400	CARBON 10K JA 1/6W
R960	401 025 1605	CARBON 1.5K JA 1/6W
R961	401 025 1605	CARBON 1.5K JA 1/6W
R962	401 025 1605	CARBON 1.5K JA 1/6W
R963	401 025 1605	CARBON 1.5K JA 1/6W
R964	401 025 1605	CARBON 1.5K JA 1/6W
R965	401 025 1605	CARBON 1.5K JA 1/6W
R966	401 025 1605	CARBON 1.5K JA 1/6W
R967	401 025 1605	CARBON 1.5K JA 1/6W
R968	401 025 1605	CARBON 1.5K JA 1/6W
R969	401 027 5205	CARBON 680 JA 1/6W
R973	401 027 5205	CARBON 680 JA 1/6W
R974	401 027 5205	CARBON 680 JA 1/6W
R975	401 027 5205	CARBON 680 JA 1/6W
R980	401 025 8208	CARBON 22K JA 1/6W
R981	401 025 8208	CARBON 22K JA 1/6W
R982	401 024 7400	CARBON 10K JA 1/6W
R983	401 024 7400	CARBON 10K JA 1/6W
R984	401 025 1902	CARBON 15K JA 1/6W
R985	401 024 7707	CARBON 100K JA 1/6W
R986	401 026 7408	CARBON 39K JA 1/6W
R987	401 024 7400	CARBON 10K JA 1/6W
R989	401 019 1901	CARBON 3.9K JA 1/4W (ITALY)
or	401 021 3009	CARBON 5.6K JA 1/4W (EUROPE/W.GERMANY/SPAIN)

TONE SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
53	141-4-290T-73500	P.C BOARD ASSY, TONE SWITCH (EUROPE/W.GEWRANY/SPAIN)
53-1 or	141-4-290T-73502	P.C BOARD ASSY, TONE SW (ITALY)
	4-236T-32272	PLUG, LED
	4-236T-32273	PLUG, GRAPHIC EQUALIZER
	4-236T-32280	PLUG, GRAPHIC EQUALIZER
	4-248T-46000	SWITCH, MUTE MODE LOUD
IC704	409 018 4503	IC LA6458DS
IC705	409 053 0409	IC TC9153AP
IC903	409 018 5104	IC LA6458SS
Q911	405 019 3705	TR 2SC536-G-AUD-SPA
Q912	405 019 3705	TR 2SC536-G-AUD-SPA
D905	407 007 9904	DIODE GMA01
D925	407 007 9904	DIODE GMA01
D926	407 007 9904	DIODE GMA01
D927	407 007 9904	DIODE GMA01
D934	407 005 4505	DIODE DS442X (ITALY)
or	407 007 9904	DIODE GMA01 (EUROPE/W.GERMANY/SPAIN)
D977	407 007 9904	DIODE GMA01 (ITALY)
C719	403 049 0305	ELECT 1U M 50V
C720	403 049 0305	ELECT 1U M 50V
C721	403 004 2504	CERAMIC 0.056U K 25V
C722	403 101 5705	ELECT 4.7U M 16V
C723	403 041 9009	ELECT 10U M 16V
C724	403 101 5705	ELECT 4.7U M 16V
C725	403 049 0305	ELECT 1U M 50V
C740	403 049 0305	ELECT 1U M 50V
C760	403 049 0305	ELECT 1U M 50V
C819	403 049 0305	ELECT 1U M 50V
C820	403 049 0305	ELECT 1U M 50V
C821	403 004 2504	CERAMIC 0.056U K 25V
C822	403 101 5705	ELECT 4.7U M 16V
C823	403 041 9009	ELECT 10U M 16V
C824	403 101 5705	ELECT 4.7U M 16V
C825	403 049 0305	ELECT 1U M 50V
C840	403 049 0305	ELECT 1U M 50V
C860	403 049 0305	ELECT 1U M 50V
C931	403 047 0109	ELECT 4.7U M 25V
C932	403 049 0305	ELECT 1U M 50V
C933	403 050 0004	ELECT 2.2U M 50V
C939	403 039 9202	ELECT 1000U M 10V
C943	403 044 2403	ELECT 470U M 16V
C972	403 043 0400	ELECT 220U M 16V
C982	403 049 0305	ELECT 1U M 50V
or	403 049 0305	ELECT 1U M 50V
C983	403 049 0305	ELECT 1U M 50V
or	403 049 0305	ELECT 1U M 50V
R737	401 025 4606	CARBON 18K JA 1/6W
R738	401 024 7400	CARBON 10K JA 1/6W
R739	401 024 7400	CARBON 10K JA 1/6W
R740	401 025 1902	CARBON 15K JA 1/6W
R741	401 025 8703	CARBON 220K JA 1/6W
R747	401 026 9907	CARBON 4.7K JA 1/6W
R748	401 026 9600	CARBON 470 JA 1/6W
R783	401 020 2904	CARBON 47K JA 1/4W
R837	401 025 4606	CARBON 18K JA 1/6W
R838	401 024 7400	CARBON 10K JA 1/6W
R839	401 024 7400	CARBON 10K JA 1/6W
R840	401 025 1902	CARBON 15K JA 1/6W
R841	401 025 8703	CARBON 220K JA 1/6W
R847	401 026 9907	CARBON 4.7K JA 1/6W
R848	401 026 9600	CARBON 470 JA 1/6W
R900	401 024 7400	CARBON 10K JA 1/6W
R901	401 024 7400	CARBON 10K JA 1/6W
R919	401 027 2600	CARBON 5.6K JA 1/6W
R925	401 027 0309	CARBON 47K JA 1/6W
R926	401 026 9600	CARBON 470 JA 1/6W
R927	401 027 0507	CARBON 470K JA 1/6W
R929	401 026 4902	CARBON 330K JA 1/6W
R930	401 012 5708	CARBON 1K JA 1/4W
R931	401 012 5708	CARBON 1K JA 1/4W
R932	401 012 7009	CARBON 10K JA 1/4W
R937	401 024 7004	CARBON 1K JA 1/6W

Ref. No.	Part No.	Description
R998	401 020 2904	CARBON 47K JA 1/4W
R999	401 027 2303	CARBON 560 JA 1/6W

GRAPHIC EQUALIZER P.C.BOARD ASSY

Ref. No.	Part No.	Description
54	141-4-290T-73600	P.C BOARD ASSY, GRAPHIC EQUALIZER (EUROPE/W.GERMANY/SPAIN)
54-1 or	141-4-290T-73602	P.C BOARD ASSY, GRAPHIC EQUALIZER (ITALY)
	4-220T-37700	V.R, BALANCE 250K
	4-220T-37771	V.R, GRAPHIC EQUALIZER
IC912	409 018 5104	IC LA6458SS
Q702	405 019 3705	TR 2SC536-G-AUD-SPA
Q703	405 019 3705	TR 2SC536-G-AUD-SPA
Q704	405 019 3705	TR 2SC536-G-AUD-SPA
Q705	405 019 3705	TR 2SC536-G-AUD-SPA
Q706	405 019 3705	TR 2SC536-G-AUD-SPA
Q791	405 019 3705	TR 2SC536-G-AUD-SPA
Q802	405 019 3705	TR 2SC536-G-AUD-SPA
Q803	405 019 3705	TR 2SC536-G-AUD-SPA
Q804	405 019 3705	TR 2SC536-G-AUD-SPA
Q805	405 019 3705	TR 2SC536-G-AUD-SPA
Q806	405 019 3705	TR 2SC536-G-AUD-SPA
Q891	405 019 3705	TR 2SC536-G-AUD-SPA
C708	403 057 3503	POLYESTER 0.1U K 50V
C709	403 003 2802	CERAMIC 0.022U K 25V
C710	403 004 3303	CERAMIC 6800P K 25V
C711	403 002 7204	CERAMIC 1500P K 25V
C712	403 023 5807	CERAMIC 330P K 50V
C713	403 050 0004	ELECT 2.2U M 50V
C714	403 048 6506	ELECT 0.47U M 50V
C715	403 137 0705	MT-POLYEST 0.12U J 63V
C716	403 003 6701	CERAMIC 0.033U K 25V
C717	403 004 5505	CERAMIC 8200P K 25V
C718	403 009 8105	CERAMIC 100P K 50V
C742	403 009 8105	CERAMIC 100P K 50V
C743	403 047 3407	ELECT 47U M 25V
C808	403 057 3503	POLYESTER 0.1U K 50V
C809	403 003 2802	CERAMIC 0.022U K 25V
C810	403 004 3303	CERAMIC 6800P K 25V
C811	403 002 7204	CERAMIC 1500P K 25V
C812	403 023 5807	CERAMIC 330P K 50V
C813	403 050 0004	ELECT 2.2U M 50V
C814	403 048 6506	ELECT 0.47U M 50V
C815	403 137 0705	MT-POLYEST 0.12U J 63V
C816	403 003 6701	CERAMIC 0.033U K 25V
C817	403 004 5505	CERAMIC 8200P K 25V
C818	403 009 8105	CERAMIC 100P K 50V
C842	403 009 8105	CERAMIC 100P K 50V
C843	403 047 3407	ELECT 47U M 25V
R709	401 025 7805	CARBON 2.2K JA 1/6W
R710	401 025 7805	CARBON 2.2K JA 1/6W
R711	401 027 5908	CARBON 68K JA 1/6W
R712	401 021 3009	CARBON 5.6K JA 1/4W
R713	401 026 6609	CARBON 390 JA 1/6W
R714	401 027 2303	CARBON 560 JA 1/6W
R715	401 027 5908	CARBON 68K JA 1/6W
R716	401 021 3009	CARBON 5.6K JA 1/4W
R717	401 026 6609	CARBON 390 JA 1/6W
R718	401 027 2303	CARBON 560 JA 1/6W
R719	401 027 5908	CARBON 68K JA 1/6W
R720	401 021 3009	CARBON 5.6K JA 1/4W
R721	401 026 6609	CARBON 390 JA 1/6W
R722	401 027 2303	CARBON 560 JA 1/6W
R723	401 027 5908	CARBON 68K JA 1/6W
R724	401 021 3009	CARBON 5.6K JA 1/4W
R725	401 026 6609	CARBON 390 JA 1/6W
R726	401 027 2303	CARBON 560 JA 1/6W
R727	401 027 5908	CARBON 68K JA 1/6W
R728	401 021 3009	CARBON 5.6K JA 1/4W
R729	401 026 6609	CARBON 390 JA 1/6W
R730	401 027 2303	CARBON 560 JA 1/6W
R761	401 027 0309	CARBON 47K JA 1/6W
R763	401 027 2600	CARBON 5.6K JA 1/6W
R764	401 025 7805	CARBON 2.2K JA 1/6W
R765	401 025 7805	CARBON 2.2K JA 1/6W
R809	401 025 7805	CARBON 2.2K JA 1/6W
R810	401 025 7805	CARBON 2.2K JA 1/6W
R811	401 027 5908	CARBON 68K JA 1/6W
R812	401 027 2600	CARBON 5.6K JA 1/6W
R813	401 026 6609	CARBON 390 JA 1/6W
R814	401 027 2303	CARBON 560 JA 1/6W
R815	401 027 5908	CARBON 68K JA 1/6W
R816	401 027 2600	CARBON 5.6K JA 1/6W
R817	401 026 6609	CARBON 390 JA 1/6W
R818	401 027 2303	CARBON 560 JA 1/6W
R819	401 027 5908	CARBON 68K JA 1/6W
R820	401 027 2600	CARBON 5.6K JA 1/6W
R821	401 026 6609	CARBON 390 JA 1/6W
R822	401 027 2303	CARBON 560 JA 1/6W
R823	401 027 5908	CARBON 68K JA 1/6W
R824	401 027 2600	CARBON 5.6K JA 1/6W
R825	401 026 6609	CARBON 390 JA 1/6W
R826	401 027 2303	CARBON 560 JA 1/6W
R827	401 027 5908	CARBON 68K JA 1/6W
R828	401 027 2600	CARBON 5.6K JA 1/6W
R829	401 026 6609	CARBON 390 JA 1/6W
R830	401 027 2303	CARBON 560 JA 1/6W
R861	401 027 0309	CARBON 47K JA 1/6W
R863	401 027 2600	CARBON 5.6K JA 1/6W
R864	401 016 3809	CARBON 2.2K JA 1/4W
R865	401 025 7805	CARBON 2.2K JA 1/6W

SPECIAL SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
55	141-4-290T-73700	P.C BOARD ASSY, SPECIAL SWITCH (EUROPE/W.GERMANY/SPAIN)
55-1 or	141-4-290T-73702	P.C BOARD ASSY, SPECIAL SWITCH (ITALY)
	4-248T-34500	SPECIAL SWITCH
or	4-248T-47600	SPECIAL SWITCH

MAIN P.C.BOARD ASSY

Ref. No.	Part No.	Description
56	141-4-290T-73800	P.C BOARD ASSY, MAIN (EUROPE/SPAIN)
or	141-4-290T-73801	P.C BOARD ASSY, MAIN (W.GERMANY)
or	141-4-290T-73802	P.C BOARD ASSY, MAIN (ITALY)
	4-236T-32273	PLUG, MAIN IN
	4-236T-10271	PLUG, 3P-25P MAIN PHONO
	4-236T-10273	PLUG, 6P MAIN PHONO
	4-236T-17972	PLUG, 5P DECK DC
L701	4-265T-07930	VHF COIL
L801	4-265T-07930	VHF COIL
IC900	409 067 2109	IC STK4162MK2
Q701	405 019 3705	TR 2SC536-G-AUD-SPA
Q801	405 019 3705	TR 2SC536-G-AUD-SPA
Q902	405 035 7008	TR 2SC3851-Y
Q903	405 060 1002	TR 2SA1488-Y
Q972	405 035 7008	TR 2SC3851-Y
D906	DDGP15-DL---N	DIODE GP15-DL
D907	DDGP15-DL---N	DIODE GP15-DL
D908	DDGP15-DL---N	DIODE GP15-DL
D909	DDGP15-DL---N	DIODE GP15-DL
D910	407 004 9105	DIODE DSF10C
D911	407 004 9105	DIODE DSF10C

PARTS LIST

Ref. No.	Part No.	Description
D912	407 004 9105	DIODE DSF10C
D913	407 004 9105	DIODE DSF10C
D914	407 007 9904	DIODE GMA01
D915	DDGP15-D----N	DIODE GP15-D
D916	407 053 3208	ZENER DIODE MTZ12B
D919	407 053 3208	ZENER DIODE MTZ12B
D981	407 053 3208	ZENER DIODE MTZ12B
C15	403 062 5905	POLYESTER 5600P M 50V, (W.GERMANY)
C16	403 062 5905	POLYESTER 5600P M 50V, (W.GERMANY)
C17	403 057 1202	POLYESTER 0.01U M 50V, (W.GERMANY)
C18	403 057 1202	POLYESTER 0.01U M 50V, (W.GERMANY)
C19	403 009 8105	CERAMIC 100P K 50V, (W.GERMANY)
C20	403 009 8105	CERAMIC 100P K 50V, (W.GERMANY)
C726	403 049 0305	ELECT 1U M 50V
C727	403 026 7105	CERAMIC 470P J 50V
C728	403 038 1801	ELECT 100U M 6.3V
C729	403 051 3301	ELECT 47U M 50V
C730	403 057 3800	POLYESTER 0.1U M 50V
C731	403 057 3800	POLYESTER 0.1U M 50V
C826	403 049 0305	ELECT 1U M 50V
C827	403 026 7105	CERAMIC 470P J 50V
C828	403 038 1801	ELECT 100U M 6.3V
C829	403 051 3301	ELECT 47U M 50V
C830	403 057 3800	POLYESTER 0.1U M 50V
C831	403 057 3800	POLYESTER 0.1U M 50V
C901	403 106 1603	NP-ELECT 1U Q 50V
C905	403 057 3800	POLYESTER 0.1U M 50V
C906	403 057 3800	POLYESTER 0.1U M 50V
C907	403 069 8404	CERAMIC 0.01U Z 50V
C908	403 069 8404	CERAMIC 0.01U Z 50V
C909	403 069 8404	CERAMIC 0.01U Z 50V
C910	403 069 8404	CERAMIC 0.01U Z 50V
C911	403 101 4401	ELECT 3300U M 50V
C912	403 101 4401	ELECT 3300U M 50V
C914	403 043 0400	ELECT 220U M 16V
C915	403 043 0400	ELECT 220U M 16V
C918	403 057 3800	POLYESTER 0.1U M 50V
C919	403 051 3301	ELECT 47U M 50V
C920	403 051 3301	ELECT 47U M 50V
C925	403 053 4405	ELECT 2200U M 35V
C935	403 049 6307	ELECT 100U M 50V
C936	403 049 6307	ELECT 100U M 50V
C946	403 043 0400	ELECT 220U M 16V
C970	403 069 8404	CERAMIC 0.01U Z 50V
R11	401 012 3407	CARBON 10 JA 1/4W (W.GERMANY)
R12	401 012 3407	CARBON 10 JA 1/4W (W.GERMANY)
R750	401 024 7004	CARBON 1K JA 1/6W
R751	401 024 7707	CARBON 100K JA 1/6W
R752	401 027 5908	CARBON 68K JA 1/6W
R753	401 026 9600	CARBON 470 JA 1/6W
R754	401 016 3809	CARBON 2.2K JA 1/4W
R755	401 022 4104	CARBON 68K JA 1/4W
R756	401 008 7204	CARBON 2.2K JB 1/2W
R757	401 006 9002	CARBON 10 JB 1/2W
R758	401 010 5601	CARBON 5.6 JB 1/2W
R850	401 024 7004	CARBON 1K JA 1/6W
R851	401 024 7707	CARBON 100K JA 1/6W
R852	401 027 5908	CARBON 68K JA 1/6W
R853	401 026 9600	CARBON 470 JA 1/6W
R854	401 016 3809	CARBON 2.2K JA 1/4W
R855	401 022 4104	CARBON 68K JA 1/4W
R856	401 008 7204	CARBON 2.2K JB 1/2W
R857	⚠ 401 006 9002	CARBON 10 JB 1/2W
R858	⚠ 401 010 5601	CARBON 5.6 JB 1/2W
R905	⚠ 401 058 2501	OXIDE-MT 100 JA 1W
R906	401 018 3807	CARBON 3.3K JA 1/4W
R907	⚠ 401 058 2501	OXIDE-MT 100 JA 1W
R908	401 018 3807	CARBON 3.3K JA 1/4W
R911	401 012 4206	CARBON 100 JB 1/4W
R912	401 019 2007	CARBON 3.9K JB 1/4W
R914	401 012 7009	CARBON 10K JA 1/4W
R915	401 017 3808	CARBON 270K JA 1/4W
R916	401 025 2305	CARBON 150K JA 1/6W
R917	401 026 7408	CARBON 39K JA 1/6W
R918	401 024 7004	CARBON 1K JA 1/6W
R939	401 012 4503	CARBON 100 JA 1/4W
R943	⚠ 402 036 4203	FUSIBLE RES 82 G- 1/4W
R944	⚠ 402 036 4203	FUSIBLE RES 82 G- 1/4W
R949	401 025 1902	CARBON 15K JA 1/6W
R960	401 012 8105	CARBON 100K JA 1/4W
R970	⚠ 401 065 6509	OXIDE-MT 150 JA 2W
R971	401 018 3807	CARBON 3.3K JA 1/4W
R972	⚠ 402 036 4005	FUSIBLE RES 150 G- 1/4W
R979	401 012 5708	CARBON 1K JA 1/4W

SUB POWER TRANCEFORMER P.C.BOARD ASSY

Ref. No.	Part No.	Description
57	141-4-290T-73900	P.C BOARD ASSY, SUB POWER TRANCEFORMER (EUROPE/W.GERMANY/SPAIN)
57-1 or	141-4-290T-73902	P.C BOARD ASSY, SUB POWER TRANCEFORMER (ITALY)
	141-2-382T-18900	TERMINAL
	141-2-381T-04202	BRACKET FUSE

HEAD PHONE P.C.BOARD ASSY

Ref. No.	Part No.	Description
58	141-4-290T-74000	P.C BOARD ASSY, HEAD PHONE (EUROPE/SPAIN)
or	141-4-290T-74001	P.C BOARD ASSY, HEAD PHONE (W.GERMANY)
or	141-4-290T-74002	P.C BOARD ASSY, HEAD PHONE (ITALY)
	4-236T-32272	PLUG, TO LED
	4-248T-45900	SWITCH, SP SW
	4-240T-63071	SOCKET, HEAD PHONE
	141-2-381T-04202	BRACKET FUSE
R745	401 019 4001	CARBON 390K JA 1/4W
R759	⚠ 401 009 5506	CARBON 330 JB 1/2W
R845	401 019 4001	CARBON 390K JA 1/4W
R859	⚠ 401 009 5506	CARBON 330 JB 1/2W
R923	401 021 7106	CARBON 6.8 JA 1/4W
R938	401 024 7400	CARBON 10K JA 1/6W

AC SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
59	141-4-290T-74100	P.C BOARD ASSY, A.C SWITCH
or	141-4-290T-74102	P.C BOARD ASSY, A.C SWITCH (ITALY)
59-1		(EUROPE/W.GERMANY/SPAIN)
	⚠ 4-238T-91200	SWITCH
C904	⚠ 404 000 1607	CERAMIC 103P P 125V
or	⚠ 404 033 3302	CERAMIC 0.01U M -

PARTS LIST

P.T. SECONDARY P.C.BOARD ASSY

Ref. No.	Part No.	Description
60	141-4-290T-74200	P.C BOARD ASSY, P.T.SECONDARY (EUROPE/W.GERMANY/SPAIN)
60-1 or	141-4-290T-74202	P.C BOARD ASSY, P.T. SECONDARY (ITALY)
R904	⚠ 401 057 4100	OXIDE-MT 0.33 JA 1W

REGULATOR 1 P.C.BOARD ASSY

Ref. No.	Part No.	Description
61	141-4-290T-74302	P.C BOARD ASSY, REGULATOR (ITALY)
or 61-1	141-4-290T-74303	P.C BOARD ASSY, REGULATOR (EUROPE/W.GERMANY/SPAIN)
IC901	409 001 7603	IC AN7812F (ITALY)
IC902	409 001 7603	IC AN7812F
C921	403 041 9009	ELECT 10U M 16V (ITALY)
C922	403 049 0305	ELECT 1U M 50V (ITALY)
C923	403 041 9009	ELECT 10U M 16V (ITALY)
or	403 049 0305	ELECT 1U M 50V (EUROPE/W.GERMANY/SPAIN)
C924	403 041 9009	ELECT 10U M 16V (EUROPE/W.GERMANY/SPAIN)
or	403 049 0305	ELECT 1U M 50V (ITALY)

TUNER P.C.BOARD ASSY

Ref. No.	Part No.	Description
62	141-4-290T-66501	P.C BOARD ASSY, TUNER MAIN (ITALY)
or	141-4-290T-66502	P.C BOARD ASSY, TUNER MAIN (EUROPE/SPAIN)
or	141-4-290T-66503	P.C BOARD ASSY, TUNER (W.GERMANY)
	141-2-382T-22700	TERMINAL
	4-970T-04500	LCD
	141-2-322T-18900	SHIELD PLATE
	141-2-322T-72100	SHIELD PLATE
	141-2-322T-72101	SHIELD PLATE (W.GERMANY)
CT101	4-224R-11600	TRIMMER, 8P N450
CT151	4-224T-15500	TRIMMER, 11P N450 (EUROPE/W.GERMANY/SPAIN)
or	4-224T-15571	TRIMMER, 11P N450
CT152	4-224T-15500	TRIMMER, 11P N450 (EUROPE/W.GERMANY/SPAIN)
or	4-224T-15571	TRIMMER, 11P N450
CT153	4-224T-15400	TRIMMER, 30P N750 (EUROPE/W.GERMANY/SPAIN)
or	4-224T-15471	TRIMMER, 30P N750
CT154	4-224T-15400	TRIMMER, 30P N750 (EUROPE/W.GERMANY/SPAIN)
or	4-224T-15471	TRIMMER, 30P N750
CT401	4-224T-35300	TRIMMER, 7P NPO (EUROPE/W.GERMANY/SPAIN)
or	4-224T-35371	TRIMMER, 7P NPO
T101	4-253T-18840	FILTER (W.GERMANY/ITALY)
T201	4-256T-35040	I.F.T, 10.7M
T202	4-256T-39040	I.F.T, 10.7M
T203	4-256T-41740	I.F.T
T204	4-255T-06946	MX COIL (W.GERMANY/ITALY)
T301	4-252T-11300	CHOKE
T302	4-252T-11300	CHOKE
L101	4-265T-56240	VHF COIL
L102	4-265T-56340	VHF COIL
L103	4-253T-15012	FILTER, 2.2UH
L104	4-265T-57244	VHF COIL
L105	4-265T-02700	VHF COIL (W.GERMANY/ITALY)
L151	4-258T-44640	O.S.C COIL
L152	4-257T-75346	ANT COIL
L153	4-258T-58340	O.S.C COIL
L154	4-257T-75446	ANT COIL
L155	4-253T-15044	FILTER
X201	4-256T-81080	I.F FILTER
X202	4-256T-81080	I.F FILTER
X203	4-256T-81080	I.F FILTER
X204	4-256T-90100	I.F FILTER
X205	4-256T-89471	I.F FILTER, 459KHZ
X401	4-225T-06200	CRYSTAL, 7.2MHZ
or	4-225T-10200	CRYSTAL, 7.2MHZ
SVR201	4-220T-19476	SEMI V.R, 20K B (EUROPE/W.GERMANY/SPAIN)
or	4-222T-97576	VR, 20K
SVR202	4-220T-19476	SEMI V.R, 20K B (EUROPE/W.GERMANY/SPAIN)
or	4-222T-97576	VR, 20K
SVR301	4-220T-19472	SEMI V.R, 1K B (EUROPE/W.GERMANY/SPAIN)
or	4-222T-97572	VR, 1K
SVR302	4-220T-19475	SEMI V.R, 10K B (EUROPE/W.GERMANY/SPAIN)
or	4-222T-97575	VR, 10K
CN401	4-267T-17180	SOCKET, 10P
CN403	4-267T-17174	SOCKET, 4P
CN901	4-240T-47672	SOCKET, 2P
CN902	4-267T-17173	SOCKET, 3P
P1	4-236T-32275	PLUG
P2	4-236T-32273	PLUG
P3	4-236T-32272	PLUG
PL961	4-612T-19100	LAMP
TP201	4-237T-09000	TERMINAL BOARD
TP202	4-237T-09000	TERMINAL BOARD
TP207	4-237T-09000	TERMINAL BOARD
TP301	4-237T-09000	TERMINAL BOARD
TP401	4-237T-09000	TERMINAL BOARD
TP402	4-237T-09000	TERMINAL BOARD
IC201	409 016 2204	IC LA1265S
IC301	409 016 9500	IC LA3361
IC401	410 032 2208	IC TC9306F-018
IC402	409 053 1604	IC TC9172P
Q101	405 035 8609	TR 2SK544-F
Q102	405 016 5900	TR 2SC2999-E-SPA
Q103	405 037 4005	TR 2SC930-E-CONV-SPA
Q104	405 016 5900	TR 2SC2999-E-SPA
Q105	405 026 8700	TR 2SK212-F-SPA
Q151	405 021 0600	TR 2SD1012-G-SPA
Q152	405 021 0600	TR 2SD1012-G-SPA
Q153	405 021 0600	TR 2SD1012-G-SPA
Q154	405 021 0600	TR 2SD1012-G-SPA
Q155	405 021 0600	TR 2SD1012-G-SPA
Q156	405 026 9004	TR 2SK222-D
Q157	405 019 3705	TR 2SC536-G-AUD-SPA
Q158	405 019 3705	TR 2SC536-G-AUD-SPA
Q201	405 037 4104	TR 2SC930-E-IF-SPA
Q202	405 019 3705	TR 2SC536-G-AUD-SPA
Q203	405 019 3705	TR 2SC536-G-AUD-SPA
Q301	405 019 3705	TR 2SC536-G-AUD-SPA
Q302	405 019 3705	TR 2SC536-G-AUD-SPA
Q303	405 021 0600	TR 2SD1012-G-SPA
Q304	405 021 0600	TR 2SD1012-G-SPA
Q351	405 004 4601	TR 2SA608-F-SPA
Q352	405 019 3705	TR 2SC536-G-AUD-SPA
Q355	405 004 4601	TR 2SA608-F-SPA
Q356	405 004 4601	TR 2SA608-F-SPA
Q357	405 019 3705	TR 2SC536-G-AUD-SPA
Q358	405 004 4601	TR 2SA608-F-SPA
Q359	405 019 3705	TR 2SC536-G-AUD-SPA
Q360	405 004 4601	TR 2SA608-F-SPA
Q401	405 019 3705	TR 2SC536-G-AUD-SPA
Q402	405 026 9004	TR 2SK222-D
Q403	405 010 9607	TR 2SC1571-F-NP
Q404	405 004 4601	TR 2SA608-F-SPA
Q405	405 019 3705	TR 2SC536-G-AUD-SPA
Q406	405 004 4601	TR 2SA608-F-SPA
Q407	405 019 3705	TR 2SC536-G-AUD-SPA

PARTS LIST

Ref. No.	Part No.	Description
Q408	405 019 3705	TR 2SC536-G-AUD-SPA
Q901	405 004 4601	TR 2SA608-F-SPA
Q963	405 021 0600	TR 2SD1012-G-SPA
D101	408 000 0103	VA SVC211SP-B2-AUD
D102	408 000 0103	VA SVC211SP-B2-AUD
D103	408 000 0103	VA SVC211SP-B2-AUD
D104	407 005 4505	DIODE DS442X
D151	407 000 1905	VARACTOR DI KV1260B
D301	407 005 4505	DIODE DS442X
D302	407 005 4505	DIODE DS442X
D351	407 005 4505	DIODE DS442X
D352	407 005 4505	DIODE DS442X
D401	407 005 4505	DIODE DS442X
D402	407 005 4505	DIODE DS442X
D403	407 005 4505	DIODE DS442X
D406	407 005 4505	DIODE DS442X
D407	407 005 4505	DIODE DS442X
D408	407 005 4505	DIODE DS442X
D409	407 005 4505	DIODE DS442X
D410	407 005 4505	DIODE DS442X
D414	407 005 4505	DIODE DS442X
D415	407 005 4505	DIODE DS442X
D416	407 005 4505	DIODE DS442X
D417	407 005 4505	DIODE DS442X
D418	407 053 7206	ZENER DIODE MTZ6.2C
D419	407 005 4505	DIODE DS442X
D420	407 007 9904	DIODE GMA01
D901	407 005 4505	DIODE DS442X
D902	407 005 4505	DIODE DS442X
D951	407 004 9006	DIODE DSF10B
D952	407 004 9006	DIODE DSF10B
D953	407 004 9006	DIODE DSF10B
D954	407 004 9006	DIODE DSF10B
D961	407 004 9006	DIODE DSF10B
C101	403 021 7209	CERAMIC 3.3P K 50V
C102	403 068 9402	CERAMIC 100P K 50V
C103	403 069 1207	CERAMIC 1000P K 50V
C104	403 069 1207	CERAMIC 1000P K 50V
C105	403 027 7906	CERAMIC 5.6P K 50V, NPO
C106	403 027 7906	CERAMIC 5.6P K 50V, NPO
C107	403 007 8404	CERAMIC 1.5P M 50V
C108	403 068 9402	CERAMIC 100P K 50V
C109	403 001 1906	CERAMIC 0.01U M 16V
C110	403 048 6308	ELECT 0.47U M 50V
C111	403 001 1906	CERAMIC 0.01U M 16V
C112	403 105 0003	CERAMIC 5.6P K 50V
C113	403 009 1700	CERAMIC 10P J 50V, NPO
C114	403 009 1700	CERAMIC 10P J 50V, NPO
C115	403 017 7404	CERAMIC 22P J 50V, NPO
C116	403 001 1906	CERAMIC 0.01U M 16V
C118	403 068 9402	CERAMIC 100P K 50V
C119	403 041 8804	ELECT 10U M 16V
C120	403 009 2004	CERAMIC 10P J 50V, NPO
C121	403 068 9402	CERAMIC 100P K 50V
C122	403 030 3506	CERAMIC 62P J 50V
C123	403 028 3402	CERAMIC 56P J 50V
C125	403 069 1207	CERAMIC 1000P K 50V
C152	403 082 2205	POLYPRO 560P J 100V
C153	403 017 0108	CERAMIC 20P J 50V
C154	403 030 2202	CERAMIC 6.8P K 50V
C155	403 004 1002	CERAMIC 0.047U M 25V
C158	403 082 2007	POLYPRO 510P J 100V
C159	403 033 3206	CERAMIC 82P J 50V
C160	403 003 3304	CERAMIC 0.022U M 25V
C161	403 028 3402	CERAMIC 56P J 50V
C162	403 071 6207	CERAMIC 220P K 50V
C163	403 003 3304	CERAMIC 0.022U M 25V
C201	403 001 1906	CERAMIC 0.01U M 16V
C202	403 001 1906	CERAMIC 0.01U M 16V
C204	403 003 3304	CERAMIC 0.022U M 25V
C205	403 003 3304	CERAMIC 0.022U M 25V
C206	403 001 1906	CERAMIC 0.01U M 16V
C207	403 049 0008	ELECT 1U M 50V

Ref. No.	Part No.	Description
C208	403 068 9402	CERAMIC 100P K 50V
C209	403 042 2405	ELECT 100U M 16V
C210	403 001 1906	CERAMIC 0.01U M 16V
C211	403 048 6308	ELECT 0.47U M 50V
C212	403 004 1002	CERAMIC 0.047U M 25V
C213	403 001 1906	CERAMIC 0.01U M 16V
C215	403 048 6308	ELECT 0.47U M 50V
C216	403 046 9905	ELECT 4.7U M 25V
C217	403 046 9905	ELECT 4.7U M 25V
C218	403 046 9905	ELECT 4.7U M 25V
C219	403 003 3304	CERAMIC 0.022U M 25V
C220	403 041 8804	ELECT 10U M 16V
C222	403 003 3304	CERAMIC 0.022U M 25V
C223	403 002 2902	CERAMIC 0.01U M 25V
C224	403 069 1207	CERAMIC 1000P K 50V
C225	403 003 3304	CERAMIC 0.022U M 25V
C226	403 041 8804	ELECT 10U M 16V
C227	403 073 6205	CERAMIC 470P J 50V
C301	403 039 6508	ELECT 100U M 10V
C302	403 041 8804	ELECT 10U M 16V
C303	403 003 3304	CERAMIC 0.022U M 25V
C304	403 107 7109	CERAMIC 0.01U J 16V
C305	403 107 7109	CERAMIC 0.01U J 16V
C306	403 080 5000	POLYPRO 1000P J 100V
C307	403 048 6308	ELECT 0.47U M 50V
C308	403 049 0008	ELECT 1U M 50V
C309	403 049 0008	ELECT 1U M 50V
C310	403 049 0008	ELECT 1U M 50V
C311	403 049 0008	ELECT 1U M 50V
C312	403 049 0008	ELECT 1U M 50V
C313	403 001 4907	CERAMIC 2200P J 16V
C314	403 001 4907	CERAMIC 2200P J 16V
C315	403 073 6205	CERAMIC 470P J 50V
C316	403 073 6205	CERAMIC 470P J 50V
C317	403 049 0008	ELECT 1U M 50V
C318	403 049 0008	ELECT 1U M 50V
C319	403 134 6106	CERAMIC 5600P J 16V
C320	403 134 6106	CERAMIC 5600P J 16V
C351	403 069 1207	CERAMIC 1000P K 50V
C401	403 013 7121	CERAMIC 16P J 50V, NPO
C402	403 017 0108	CERAMIC 20P J 50V, NPO
C403	403 039 6508	ELECT 100U M 10V
C404	403 001 1906	CERAMIC 0.01U M 16V
C405	403 001 1906	CERAMIC 0.01U M 16V
C406	403 001 1906	CERAMIC 0.01U M 16V
C407	403 121 8106	NP-ELECT 1U M 50V
C408	403 041 8804	ELECT 10U M 16V
C409	403 001 1906	CERAMIC 0.01U M 16V
C410	404 034 8405	CAPACITOR 0.047F Z 5.5V
C412	403 001 1906	CERAMIC 0.01U M 16V
C413	403 028 3402	CERAMIC 56P J 50V
C415	403 009 5609	CERAMIC 100P J 50V
C416	403 068 9402	CERAMIC 100P K 50V
C417	403 068 9402	CERAMIC 100P K 50V
C420	403 049 0008	ELECT 1U M 50V
C421	403 041 8804	ELECT 10U M 16V
C425	403 046 9905	ELECT 4.7U M 25V
C901	403 042 2405	ELECT 100U M 16V
C902	403 041 8804	ELECT 10U M 16V
C903	403 041 8804	ELECT 10U M 16V
C904	403 048 6308	ELECT 0.47U M 50V
C910	403 001 1906	CERAMIC 0.01U M 16V
C911	403 068 9402	CERAMIC 100P K 50V
C951	403 069 8404	CERAMIC 0.01U Z 50V
C952	403 069 8404	CERAMIC 0.01U Z 50V
C953	403 069 8404	CERAMIC 0.01U Z 50V
C954	403 069 8404	CERAMIC 0.01U Z 50V
C955	403 054 1700	ELECT 470U M 35V
C956	403 042 2405	ELECT 100U M 16V
R101	401 024 7707	CARBON 100K JA 1/6W
R102	401 027 2105	CARBON 56 JA 1/6W
R103	401 012 7009	CARBON 10K JA 1/4W
R104	401 026 3905	CARBON 330 JA 1/6W
R105	401 012 7009	CARBON 10K JA 1/4W

PARTS LIST

Ref. No.	Part No.	Description
R106	401 027 0507	CARBON 470K JA 1/6W
R107	401 026 3905	CARBON 330 JA 1/6W
R108	401 012 7009	CARBON 10K JA 1/4W
R109	401 026 4902	CARBON 330K JA 1/6W
R110	401 026 1000	CARBON 2.7K JA 1/6W
R111	401 026 3905	CARBON 330 JA 1/6W
R112	401 026 3905	CARBON 330 JA 1/6W
R115	401 027 2105	CARBON 56 JA 1/6W
R116	401 025 7805	CARBON 2.2K JA 1/6W
R117	401 024 8001	CARBON 1M JA 1/6W
R118	401 027 2105	CARBON 56 JA 1/6W
R119	401 026 3905	CARBON 330 JA 1/6W
R120	401 026 4308	CARBON 3.3K JA 1/6W
R152	401 025 8208	CARBON 22K JA 1/6W
R153	401 012 7009	CARBON 10K JA 1/4W
R154	401 023 4608	CARBON 820K JA 1/4W
R155	401 026 4308	CARBON 3.3K JA 1/6W
R156	401 026 4308	CARBON 3.3K JA 1/6W
R157	401 026 4308	CARBON 3.3K JA 1/6W
R158	401 026 4308	CARBON 3.3K JA 1/6W
R159	401 026 4308	CARBON 3.3K JA 1/6W
R160	401 024 6700	CARBON 100 JA 1/6W
R161	401 024 6700	CARBON 100 JA 1/6W
R162	401 025 3807	CARBON 180 JA 1/6W
R163	401 024 8001	CARBON 1M JA 1/6W
R164	401 021 4105	CARBON 56K JA 1/4W
R167	401 027 0507	CARBON 470K JA 1/6W
R168	401 024 6403	CARBON 10 JA 1/6W
R169	401 027 3003	CARBON 56K JA 1/6W
R170	401 024 8001	CARBON 1M JA 1/6W
R201	401 027 2303	CARBON 560 JA 1/6W
R202	401 024 7004	CARBON 1K JA 1/6W
R203	401 027 0507	CARBON 470K JA 1/6W
R205	401 026 3905	CARBON 330 JA 1/6W
R206	401 024 7400	CARBON 10K JA 1/6W
R207	401 026 4605	CARBON 33K JA 1/6W
R208	401 024 6700	CARBON 100 JA 1/6W
R209	401 026 4605	CARBON 33K JA 1/6W
R210	401 017 0807	CARBON 270 JA 1/4W
R211	401 027 3201	CARBON 560K JA 1/6W
R212	401 027 3003	CARBON 56K JA 1/6W
R213	401 024 7707	CARBON 100K JA 1/6W
R214	401 016 3809	CARBON 2.2K JA 1/4W
R215	401 024 7004	CARBON 1K JA 1/6W
R216	401 026 4308	CARBON 3.3K JA 1/6W
R217	401 027 3003	CARBON 56K JA 1/6W
R218	401 012 8105	CARBON 100K JA 1/4W
R219	401 024 7400	CARBON 10K JA 1/6W
R220	401 024 7400	CARBON 10K JA 1/6W
R224	401 027 2600	CARBON 5.6K JA 1/6W
R225	401 017 0807	CARBON 270 JA 1/4W
R301	401 018 2800	CARBON 330 JA 1/4W
R302	401 026 9907	CARBON 4.7K JA 1/6W
R303	401 026 9907	CARBON 4.7K JA 1/6W
R305	401 027 5502	CARBON 6.8K JA 1/6W
R306	401 012 5708	CARBON 1K JA 1/4W
R307	401 027 3003	CARBON 56K JA 1/6W
R308	401 024 7400	CARBON 10K JA 1/6W
R309	401 024 9701	CARBON 12K JA 1/6W
R310	401 024 9701	CARBON 12K JA 1/6W
R311	401 024 9701	CARBON 12K JA 1/6W
R312	401 024 9701	CARBON 12K JA 1/6W
R313	401 027 3201	CARBON 560K JA 1/6W
R314	401 027 3201	CARBON 560K JA 1/6W
R315	401 025 7805	CARBON 2.2K JA 1/6W
R316	401 025 7805	CARBON 2.2K JA 1/6W
R317	401 026 0607	CARBON 270 JA 1/6W
R318	401 026 0607	CARBON 270 JA 1/6W
R319	401 024 7707	CARBON 100K JA 1/6W
R320	401 024 7707	CARBON 100K JA 1/6W
R321	401 018 3807	CARBON 3.3K JA 1/4W
R322	401 018 3807	CARBON 3.3K JA 1/4W
R351	401 012 8105	CARBON 100K JA 1/4W

Ref. No.	Part No.	Description
R352	401 025 2305	CARBON 150K JA 1/6W
R355	401 012 8105	CARBON 100K JA 1/4W
R357	401 024 7400	CARBON 10K JA 1/6W
R358	401 012 7009	CARBON 10K JA 1/4W
R359	401 025 2305	CARBON 150K JA 1/6W
R361	401 021 4105	CARBON 56K JA 1/4W
R362	401 024 7400	CARBON 10K JA 1/6W
R365	401 024 7400	CARBON 10K JA 1/6W
R366	401 025 2305	CARBON 150K JA 1/6W
R367	401 021 4105	CARBON 56K JA 1/4W
R369	401 012 7009	CARBON 10K JA 1/4W
R370	401 024 7400	CARBON 10K JA 1/6W
R401	401 018 2800	CARBON 330 JA 1/4W
R403	401 024 7004	CARBON 1K JA 1/6W
R405	401 016 3809	CARBON 2.2K JA 1/4W
R406	401 027 2303	CARBON 560 JA 1/6W
R407	401 026 4308	CARBON 3.3K JA 1/6W
R408	401 025 1605	CARBON 1.5K JA 1/6W
R409	401 024 7400	CARBON 10K JA 1/6W
R414	401 024 6700	CARBON 100 JA 1/6W
R415	401 024 7400	CARBON 10K JA 1/6W
R416	401 024 7400	CARBON 10K JA 1/6W
R417	401 024 7400	CARBON 10K JA 1/6W
R418	401 024 7004	CARBON 1K JA 1/6W
R419	401 027 2105	CARBON 56 JA 1/6W
R420	401 018 3807	CARBON 3.3K JA 1/4W
R421	401 027 3003	CARBON 56K JA 1/6W
R422	401 020 2003	CARBON 4.7K JA 1/4W
R424	401 013 5301	CARBON 1.2K JA 1/4W
R425	401 021 4105	CARBON 56K JA 1/4W
R426	401 025 8703	CARBON 220K JA 1/6W
R427	401 024 7004	CARBON 1K JA 1/6W
R428	401 027 2600	CARBON 5.6K JA 1/6W
R429	401 025 8703	CARBON 220K JA 1/6W
R430	401 021 1906	CARBON 560 JA 1/4W
R431	401 016 3809	CARBON 2.2K JA 1/4W
R432	401 024 7004	CARBON 1K JA 1/6W
R433	401 026 4308	CARBON 3.3K JA 1/6W
R435	401 012 8105	CARBON 100K JA 1/4W
R436	401 027 3003	CARBON 56K JA 1/6W
R437	401 025 8208	CARBON 22K JA 1/6W
R441	401 024 7004	CARBON 1K JA 1/6W
R443	401 027 3003	CARBON 56K JA 1/6W
R446	401 027 3003	CARBON 56K JA 1/6W
R447	401 027 3003	CARBON 56K JA 1/6W
R448	401 026 4605	CARBON 33K JA 1/6W
R901	401 024 7707	CARBON 100K JA 1/6W
R902	401 024 6700	CARBON 100 JA 1/6W
R903	401 025 8208	CARBON 22K JA 1/6W
R904	401 025 4903	CARBON 180K JA 1/6W
R905	401 012 4503	CARBON 100 JA 1/4W
R906	401 012 4503	CARBON 100 JA 1/4W
R907	401 020 2003	CARBON 4.7K JA 1/4W
R908	401 026 9907	CARBON 4.7K JA 1/6W
R910	401 012 3001	CARBON 10 JB 1/4W
R962	401 012 3407	CARBON 10 JA 1/4W
R963	401 017 7608	CARBON 3.9 JA 1/4W
R964	401 021 3009	CARBON 5.6K JA 1/4W
R966	401 013 3208	CARBON 12 JA 1/4W

PRESET SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
63	141-4-290T-66601	P.C BOARD ASSY, PRESET SWITCH (ITALY)
or	141-4-290T-66671	P.C BOARD ASSY, PRESET SWITCH
63-1	141-4-290T-66671	(EUROPE/W.GERMANY/SPAIN)
S401	4-248T-46800	SWITCH, M1
S402	4-248T-46800	SWITCH, M2
S403	4-248T-46800	SWITCH, M3
S404	4-248T-46800	SWITCH, M4
S405	4-248T-46800	SWITCH, M5

PARTS LIST

Ref. No.	Part No.	Description
S406	4-248T-46800	SWITCH, M6
S407	4-248T-46800	SWITCH, BAND
S408	4-248T-46800	SWITCH, A/M
S409	4-248T-46800	SWITCH, CLOCK T ADJ
S410	4-248T-46800	SWITCH, H/M SELECT
S413	4-248T-46800	SWITCH, TIME 5 DEC
S414	4-248T-46800	SWITCH, TIME 9 INC
CN402	4-267T-17180	SOCKET

UP/DOWN SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
64	141-4-290T-66700	P.C BOARD ASSY, UP/DOWN SWITCH
64-1		(EUROPE/W.GERMANY/SPAIN)
or	141-4-290T-66701	P.C BOARD ASSY, UP/DOWN SWITCH (ITALY)
S415	4-238T-70853	SWITCH, DOWN (EUROPE/W.GERMANY/SPAIN)
or	4-238T-70873	SWITCH, DOWN
S416	4-238T-70853	SWITCH, UP (EUROPE/W.GERAMANY/SPAIN)
or	4-238T-70873	SWITCH, UP
CN404	4-267T-17174	SOCKET, 4P

REGULATOR 2 P.C.BOARD ASSY

Ref. No.	Part No.	Description
65	141-4-290T-66900	P.C BOARD ASSY, REGULATOR 2
65-1		(EUROPE/W.GERMANY/SPAIN)
or	141-4-290T-66901	P.C BOARD ASSY, REGULATOR (ITALY)
CN903	4-267T-17173	SOCKET, 3P
IC901	409 078 2402	IC L7812ML
or	409 122 6202	IC NJM7812FA

PHONO P.C.BOARD ASSY (W-GERMANY)

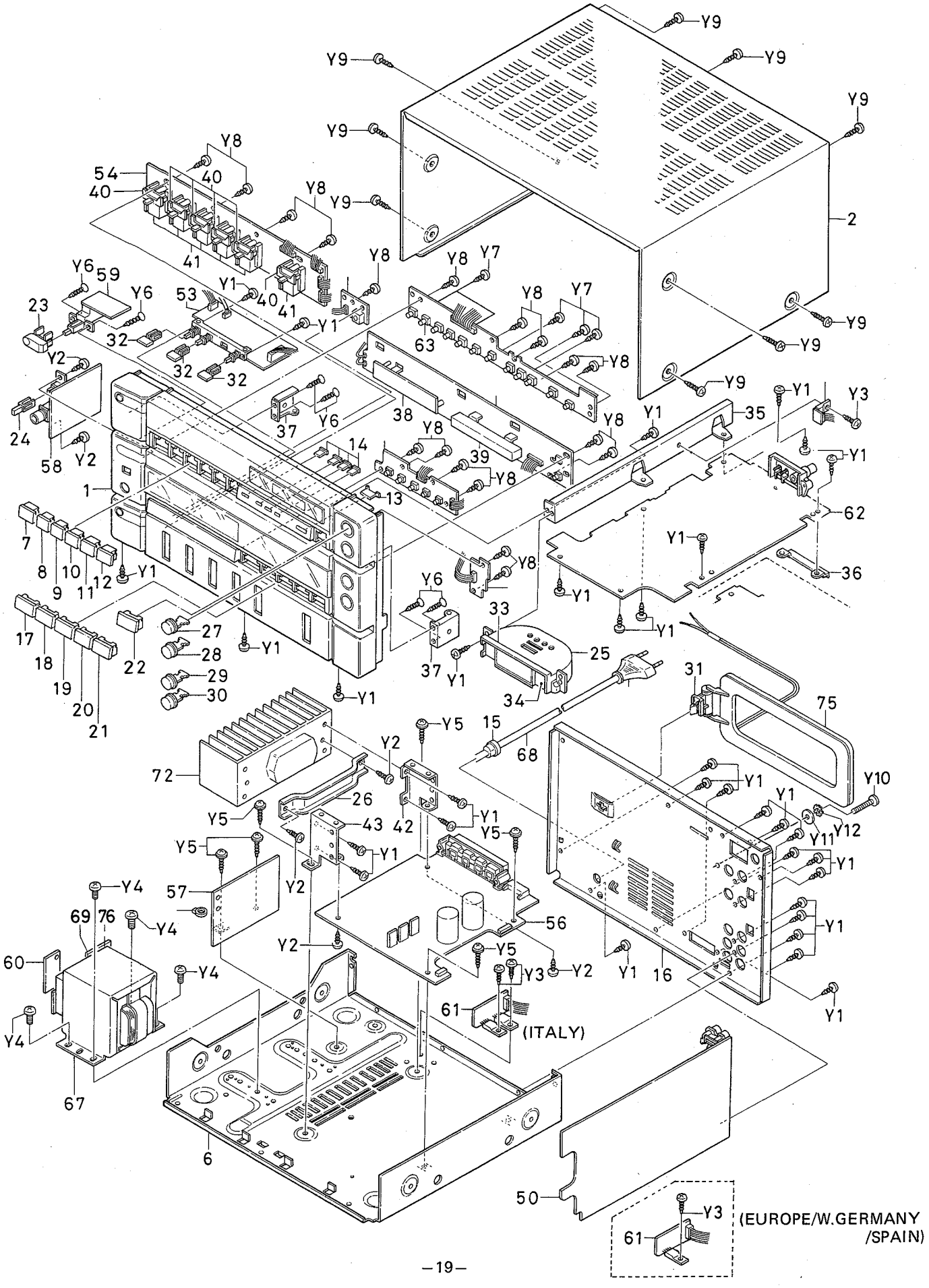
Ref. No.	Part No.	Description
	4-267T-68200	SOCKET, 6P RCA CD TAPE
	4-267T-68171	SOCKET, 2P RCA PHONO
	4-267T-68100	SOCKET, 2P RCA VCR
	4-236T-17900	PLUG, 3P PLAYER DC
	4-236T-17971	PLUG, 4P CD
	4-236T-32273	PLUG, IR
	4-236T-32276	PLUG, LED
	4-236T-32278	PLUG
	4-240T-18504	SOCKET, TO MAIN
	4-240T-18506	SOCKET, TO MAIN
X901	4-266T-01700	SERAMIC RESONATOR
IC701	409 018 4503	IC LA6458DS
IC702	409 022 3608	IC LC7818
IC703	409 121 0102	IC LC6527C-3388, U PROCESOR
Q905	405 019 4108	TR 2SC536-G-AUD-NP
Q907	405 019 4108	TR 2SC536-G-AUD-NP
Q908	405 019 4108	TR 2SC536-G-AUD-NP
Q909	405 023 5306	TR 2SD400-F-MP
Q910	405 019 4108	TR 2SC536-G-AUD-NP
Q990	405 006 7709	TR 2SA999-F
D900	407 007 9904	DIODE GMA01
D901	407 053 6704	ZENER DIODE MTZ5.6B
D920	407 053 6704	ZENER DIODE MTZ5.6B
D921	407 005 4505	DIODE DS442X
D922	407 007 9904	DIODE GMA01
D923	407 007 9904	DIODE GMA01
D928	407 007 9904	DIODE GMA01
D962	407 005 4505	DIODE DS442X

Ref. No.	Part No.	Description
D963	407 005 4505	DIODE DS442X
D966	407 007 9904	DIODE GMA01
D967	407 007 9904	DIODE GMA01
D974	407 007 9904	DIODE GMA01
D975	407 050 5502	ZENER DIODE GZA5.6Y
D976	407 007 9904	DIODE GMA01
C1	403 029 0509	CERAMIC 560P K 50V
C2	403 029 0509	CERAMIC 560P K 50V
C3	403 029 0509	CERAMIC 560P K 50V
C4	403 029 0509	CERAMIC 560P K 50V
C5	403 029 0509	CERAMIC 560P K 50V
C6	403 029 0509	CERAMIC 560P K 50V
C7	403 029 0509	CERAMIC 560P K 50V
C8	403 029 0509	CERAMIC 560P K 50V
C9	403 029 0509	CERAMIC 560P K 50V
C10	403 029 0509	CERAMIC 560P K 50V
C701	403 047 0109	ELECT 4.7U M 25V
C702	403 038 8800	ELECT 33U M 6.3V
C703	403 075 4308	CERAMIC 820P K 50V
C704	403 018 8509	CERAMIC 220P K 50V
C705	403 003 9405	CERAMIC 4700P K 25V
C706	403 003 0600	CERAMIC 0.018U K 25V
C707	403 106 1603	NP-ELECT 1U Q 50V
C801	403 047 0109	ELECT 4.7U M 25V
C802	403 038 8800	ELECT 33U M 6.3V
C803	403 075 4308	CERAMIC 820P K 50V
C804	403 018 8509	CERAMIC 220P K 50V
C805	403 003 9405	CERAMIC 4700P K 25V
C806	403 003 0600	CERAMIC 0.018U K 25V
C807	403 106 1603	NP-ELECT 1U Q 50V
C900	403 049 0305	ELECT 1U M 50V
C927	403 049 0305	ELECT 1U M 50V
C928	403 041 9009	ELECT 10U M 16V
C929	403 043 9304	ELECT 47U M 16V
C930	403 043 9304	ELECT 47U M 16V
C932	403 049 0305	ELECT 1U M 50V
C934	403 060 8205	POLYESTER 0.033U K 50V
C937	403 009 8105	CERAMIC 100P K 50V
C938	403 009 8105	CERAMIC 100P K 50V
C941	403 044 1703	ELECT 470U M 16V
C960	403 018 8509	CERAMIC 220P K 50V
C961	403 009 8105	CERAMIC 100P K 50V
C962	403 039 6904	ELECT 100U M 10V
C971	403 047 0109	ELECT 4.7U M 50V
or	403 047 0109	ELECT 4.7U M 25V
C990	403 069 8404	CERAMIC 0.01U Z 50V
C991	403 038 9708	ELECT 330U M 6.3V
C992	403 069 8404	CERAMIC 0.01U Z 50V
R1	401 024 7004	CARBON 1K JA 1/6W
R2	401 024 7004	CARBON 1K JA 1/6W
R3	401 024 7004	CARBON 1K JA 1/6W
R4	401 024 7004	CARBON 1K JA 1/6W
R5	401 024 7004	CARBON 1K JA 1/6W
R6	401 024 7004	CARBON 1K JA 1/6W
R7	401 024 7004	CARBON 1K JA 1/6W
R8	401 024 7004	CARBON 1K JA 1/6W
R9	401 024 7004	CARBON 1K JA 1/6W
R10	401 024 7004	CARBON 1K JA 1/6W
R701	401 024 7004	CARBON 1K JA 1/6W
R702	401 027 0309	CARBON 47K JA 1/6W
R703	401 026 3905	CARBON 330 JA 1/6W
R704	401 025 1902	CARBON 15K JA 1/6W
R705	401 026 1604	CARBON 270K JA 1/6W
R706	401 027 2303	CARBON 560 JA 1/6W
R707	401 024 7707	CARBON 100K JA 1/6W
R780	401 012 7009	CARBON 10K JA 1/4W
R781	401 012 7009	CARBON 10K JA 1/4W
R782	401 027 0309	CARBON 47K JA 1/6W
R801	401 024 7004	CARBON 1K JA 1/6W
R802	401 027 0309	CARBON 47K JA 1/6W
R803	401 026 3905	CARBON 330 JA 1/6W
R804	401 025 1902	CARBON 15K JA 1/6W
R805	401 026 1604	CARBON 270K JA 1/6W
R806	401 027 2303	CARBON 560 JA 1/6W

PARTS LIST

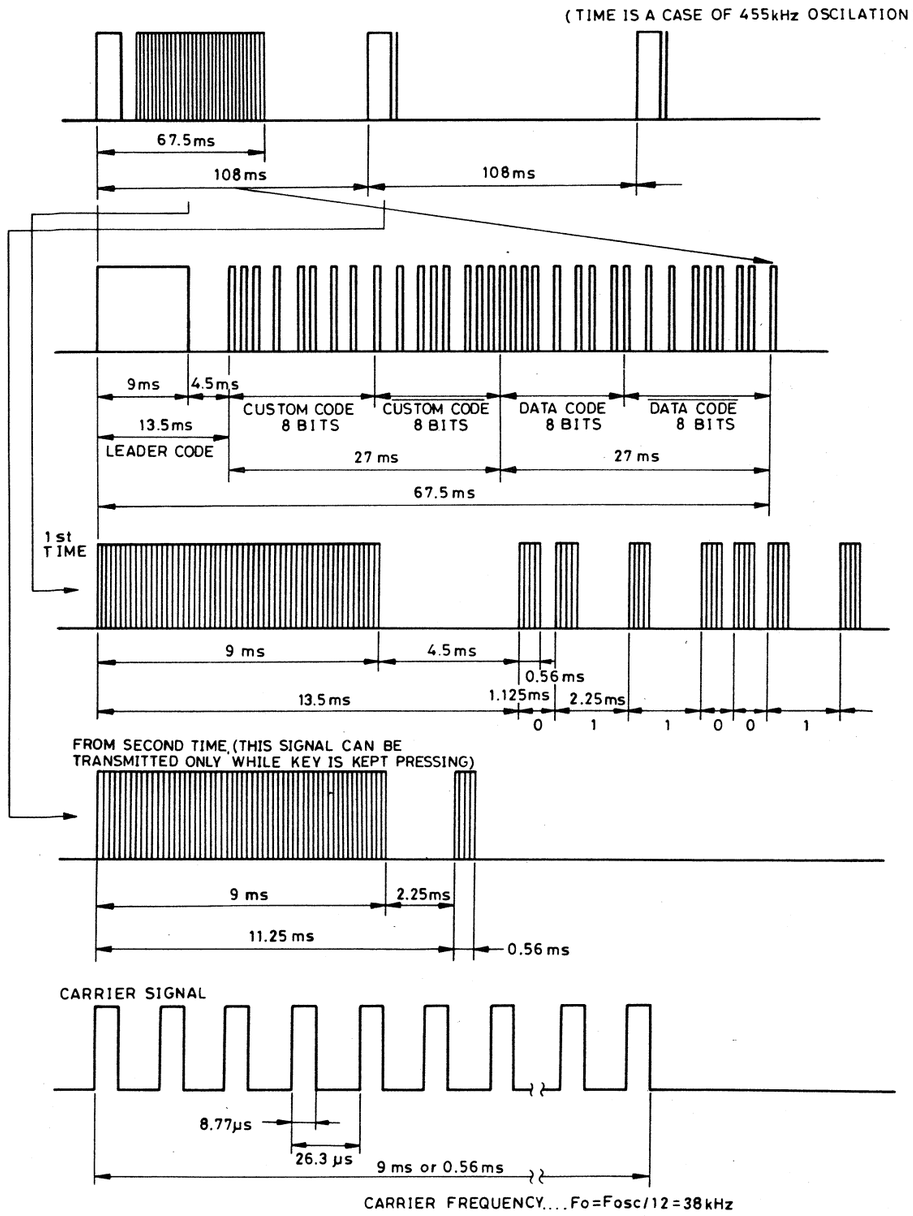
Ref. No.	Part No.	Description
R807	401 024 7707	CARBON 100K JA 1/6W
R902	401 024 7400	CARBON 10K JA 1/6W
R903	401 012 7009	CARBON 10K JA 1/4W
R907	401 024 7400	CARBON 10K JA 1/6W
R908	401 025 7805	CARBON 2.2K JA 1/6W
R910	401 024 7400	CARBON 10K JA 1/6W
R920	402 023 2700	FUSIBLE RES 100 G- 1/4W
R921	401 018 3807	CARBON 3.3K JA 1/4W
R928	401 020 2904	CARBON 47K JA 1/4W
R933	401 024 7707	CARBON 100K JA 1/6W
R934	401 024 7707	CARBON 100K JA 1/6W
R935	401 024 7707	CARBON 100K JA 1/6W
R936	401 024 7707	CARBON 100K JA 1/6W
R940	401 024 8001	CARBON 1M JA 1/6W
R941	401 024 7707	CARBON 100K JA 1/6W
R942	401 026 9907	CARBON 4.7K JA 1/6W
R945	401 012 7009	CARBON 10K JA 1/4W
R946	401 012 7009	CARBON 10K JA 1/4W
R947	401 012 8105	CARBON 100K JA 1/4W
R948	401 024 7400	CARBON 10K JA 1/6W
R958	401 012 7009	CARBON 10K JA 1/4W
R959	401 025 8703	CARBON 220K JA 1/6W
R960	407 007 9904	DIODE GMA01
R961	407 007 9904	DIODE GMA01
R964	407 007 9904	DIODE GMA01
R965	407 007 9904	DIODE GMA01
R977	401 014 5201	CARBON 15K JA 1/4W
R978	401 012 7009	CARBON 10K JA 1/4W
R990	401 012 8105	CARBON 100K JA 1/4W
R991	401 012 8105	CARBON 100K JA 1/4W
R992	401 024 7707	CARBON 100K JA 1/6W
R993	401 024 7707	CARBON 100K JA 1/6W
R994	401 027 0309	CARBON 47K JA 1/6W
R995	401 012 7009	CARBON 10K JA 1/4W
R996	401 012 7009	CARBON 10K JA 1/4W
R997	401 012 5708	CARBON 1K JA 1/4W

CABINET & CHASSIS EXPLODED VIEW



TRANSMISSION SIGNAL FROM REMOTE CONTROLLER

16 bits transmission signal from the remote controller is composed of the leader code, custom code and data code. This transmission signal is directly decoded at the 4 bits microprocessor in the power amplifier.
The leader code is composed of 9m sec carrier and 4.5m sec blank time. The custom code and data code are transmitted conbined with their reverse codes to prevent malfunction and to obtain reliable transmitting and receiving of infrared-ray.



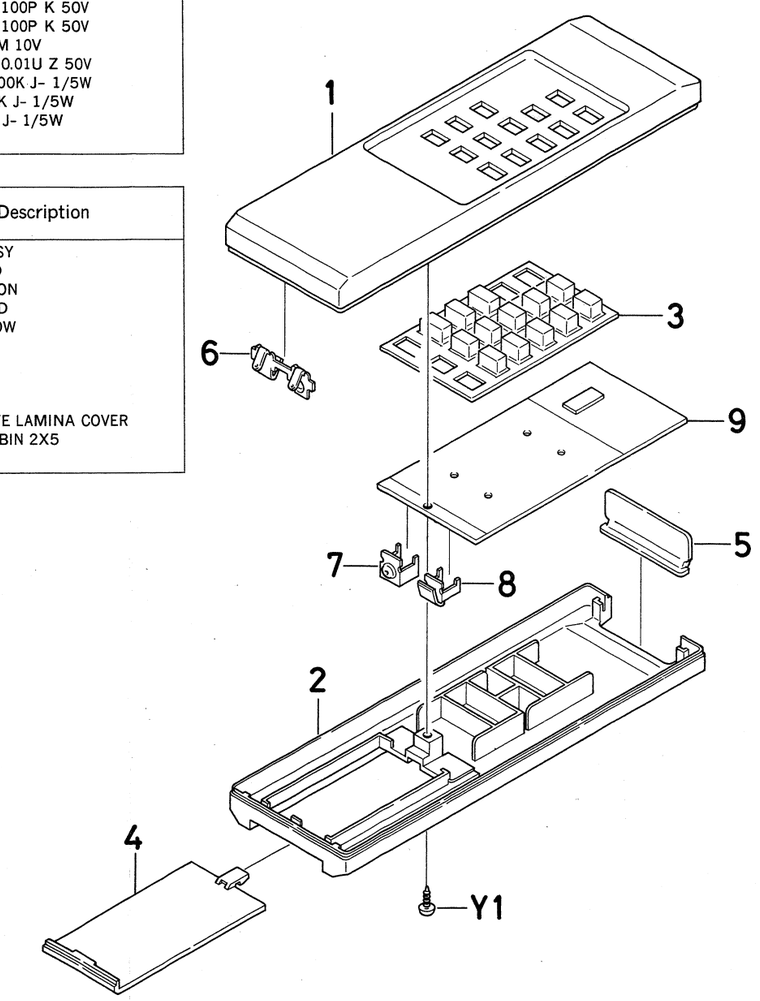
CABINET & CHASSIS EXPLODED VIEW, PARTS LIST (REMOTE CONTROLLER)

P.C.BOARD ASSY

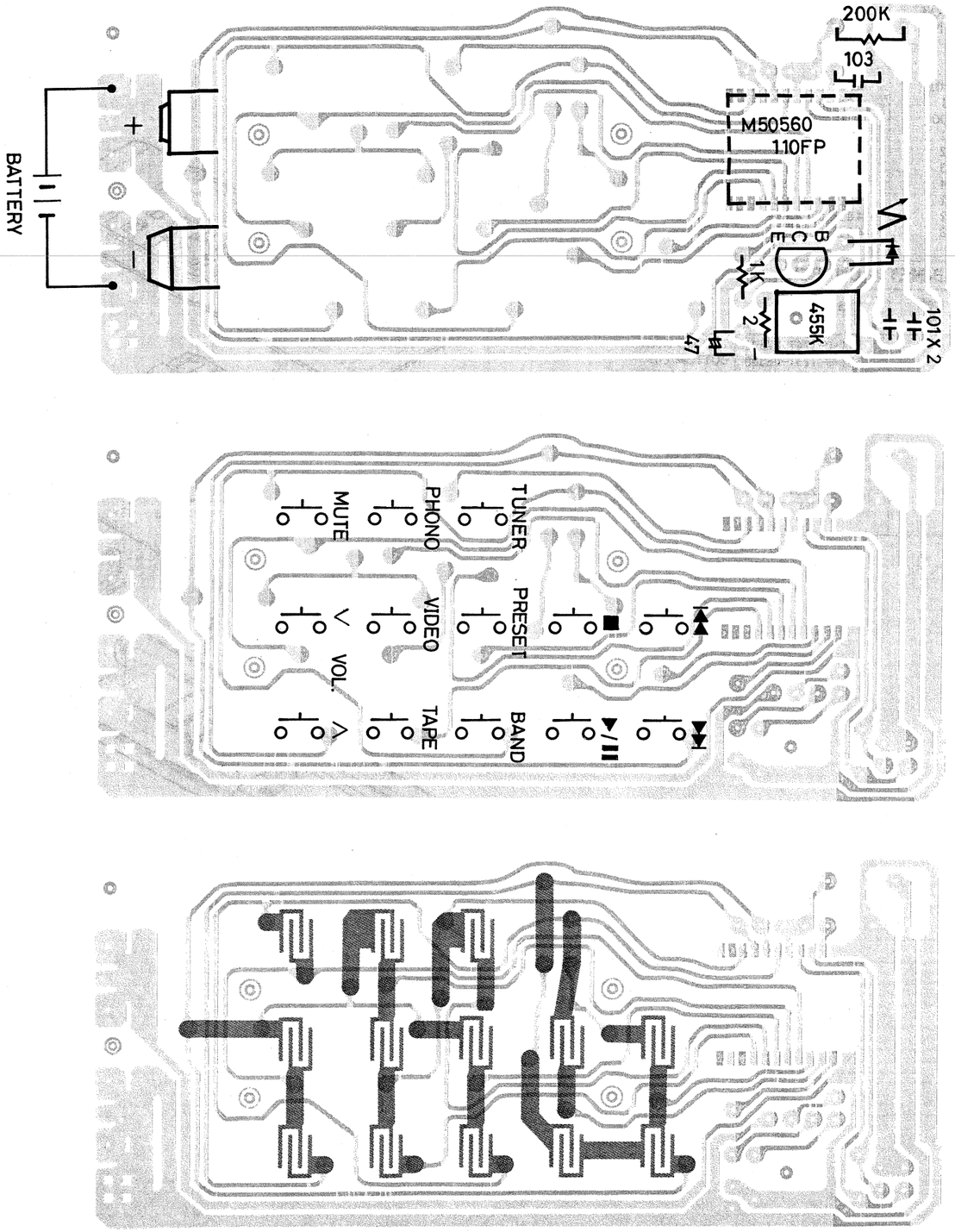
Ref. No.	Part No.	Description
X1	9–266T–00300	SERAMIC RESONATOR CSB455E, 455KHZ
IC101	409 121 0201	IC M50560–110FP
Q01	406 004 6206	TR 2SC2001
LED01	408 005 2102	LED SE313
C01	404 032 6106	CAPACITOR 100P K 50V
C02	404 032 6106	CAPACITOR 100P K 50V
C03	404 032 6205	ELECT 47U M 10V
C04	404 034 8306	CAPACITOR 0.01U Z 50V
R01	402 035 8806	RESISTOR 200K J- 1/5W
R02	402 035 8707	RESISTOR 1K J- 1/5W
R03	402 035 3405	RESISTOR 2 J- 1/5W

CABINET & CHASSIS

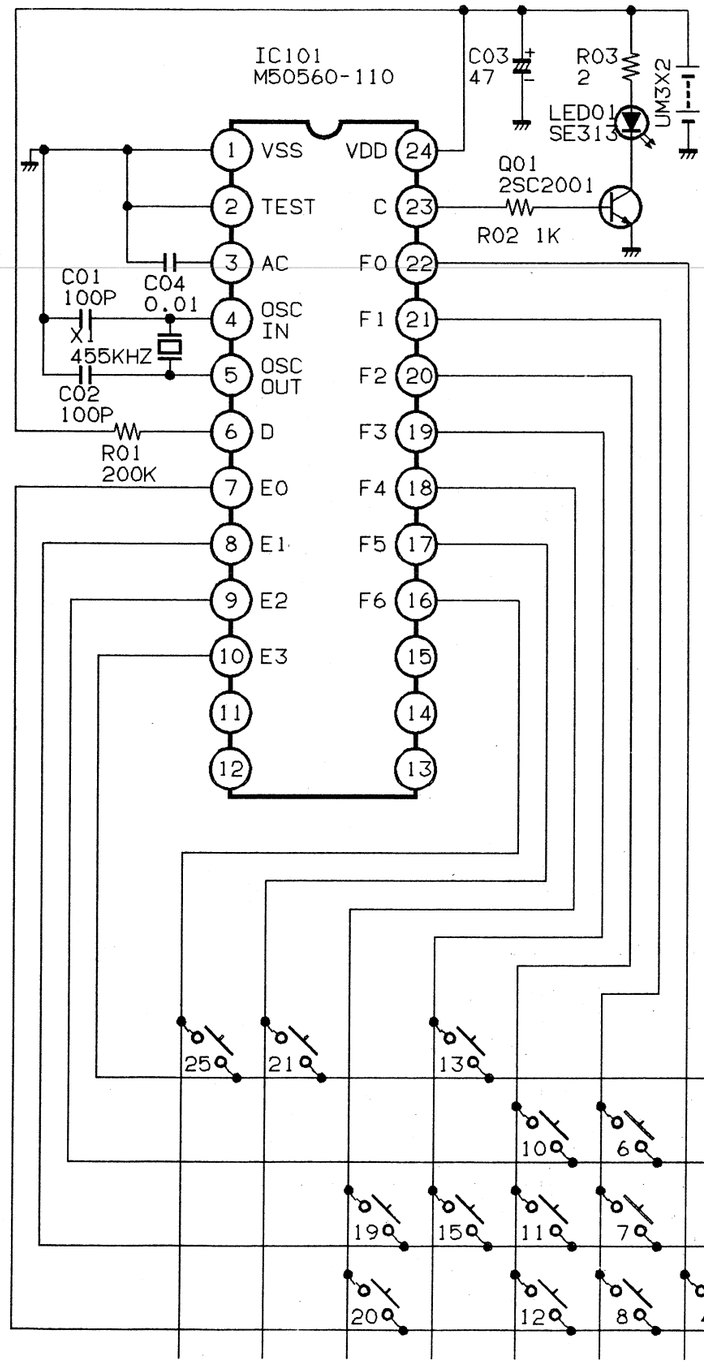
Ref. No.	Part No.	Description
1	141–0–124T–57502	TOP LID ASSY
2	141–9–125T–06800	BOTTOM LID
3	141–9–160T–01002	PUSH BOTTON
4	141–9–128T–04500	BATTERY,LID
5	141–9–132T–00300	SIGN WINDOW
6	141–9–382T–00100	TERMINAL
7	141–9–382T–00200	TERMINAL
8	141–9–382T–00300	TERMINAL
9	141–9–280T–01371	P.C BOARD
	141–6–235T–08200	INNER POLYE LAMINA COVER
Y1	411 104 7008	SCR S-TPG BIN 2X5



WIRING DIAGRAM (REMOTE CONTROLLER)

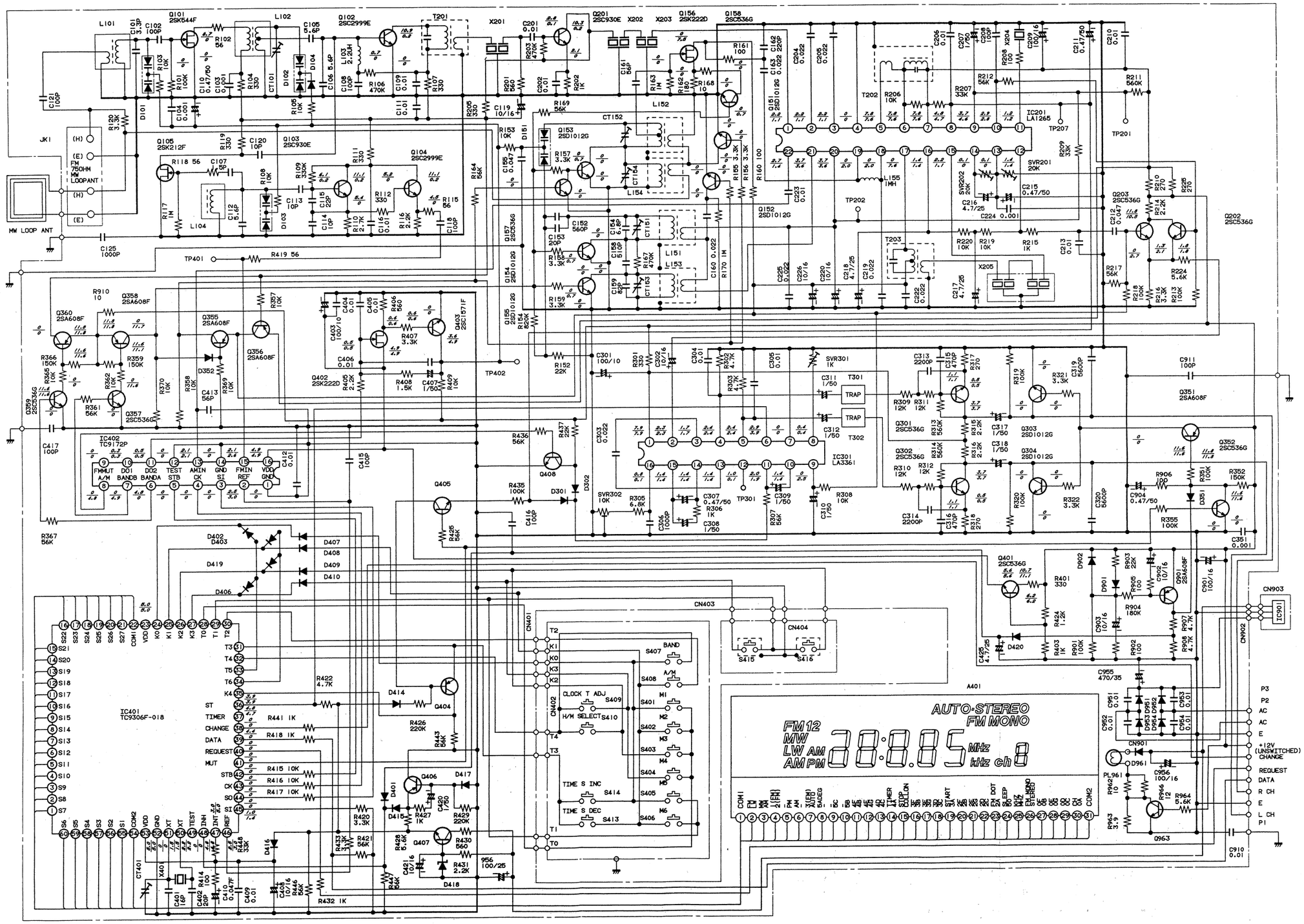


SCHEMATIC DIAGRAM (REMOTE CONTROLLER)

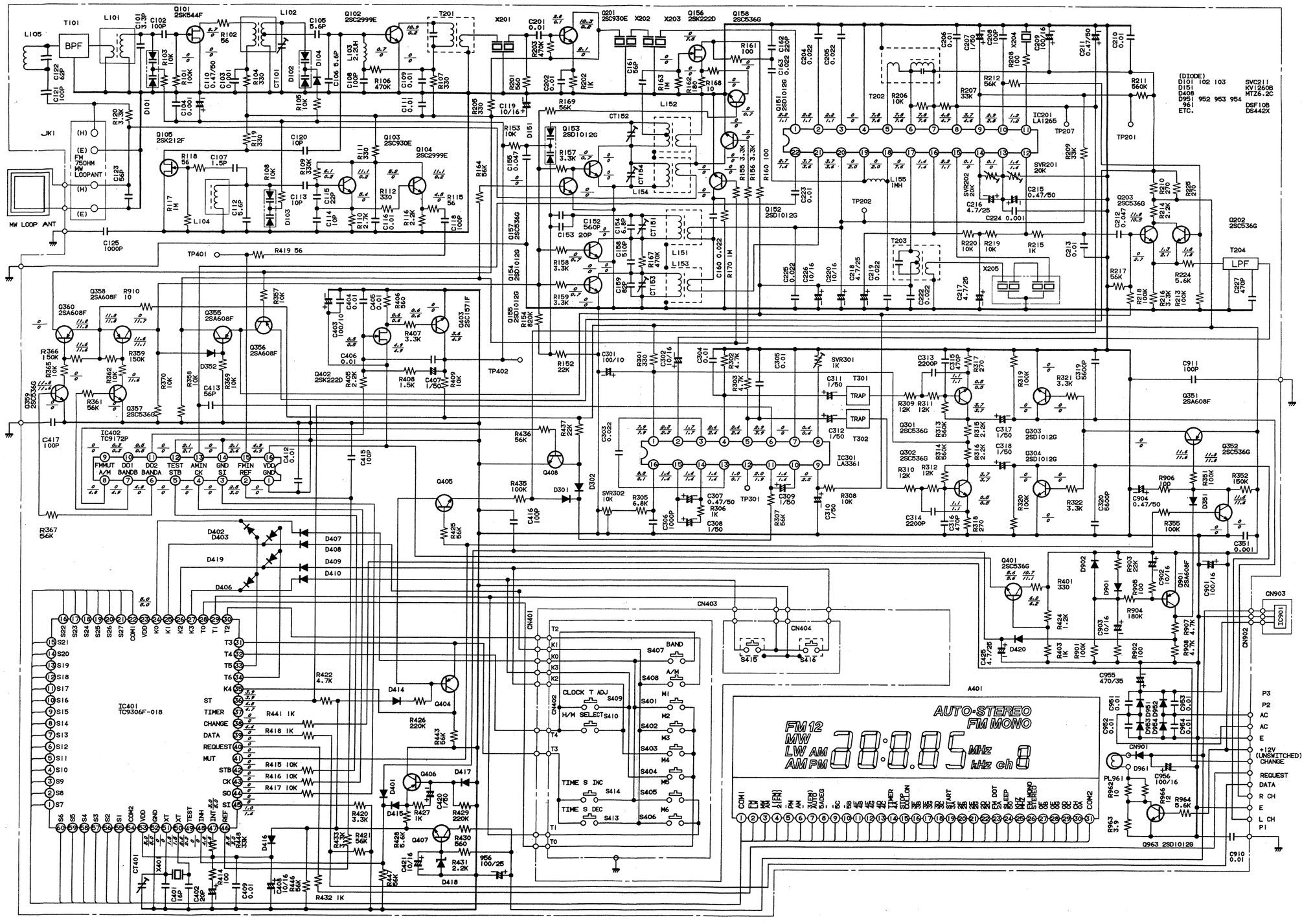


SW NO	FUNCTION
4	STOP
6	CD ▷/▯▯
7	▷▷I
8	I◁◁
10	VOL ∧
11	VOL ∨
12	MUTE
13	VIDEO
15	PHONO
19	PRESET
20	BAND
21	TUNER
25	TAPE

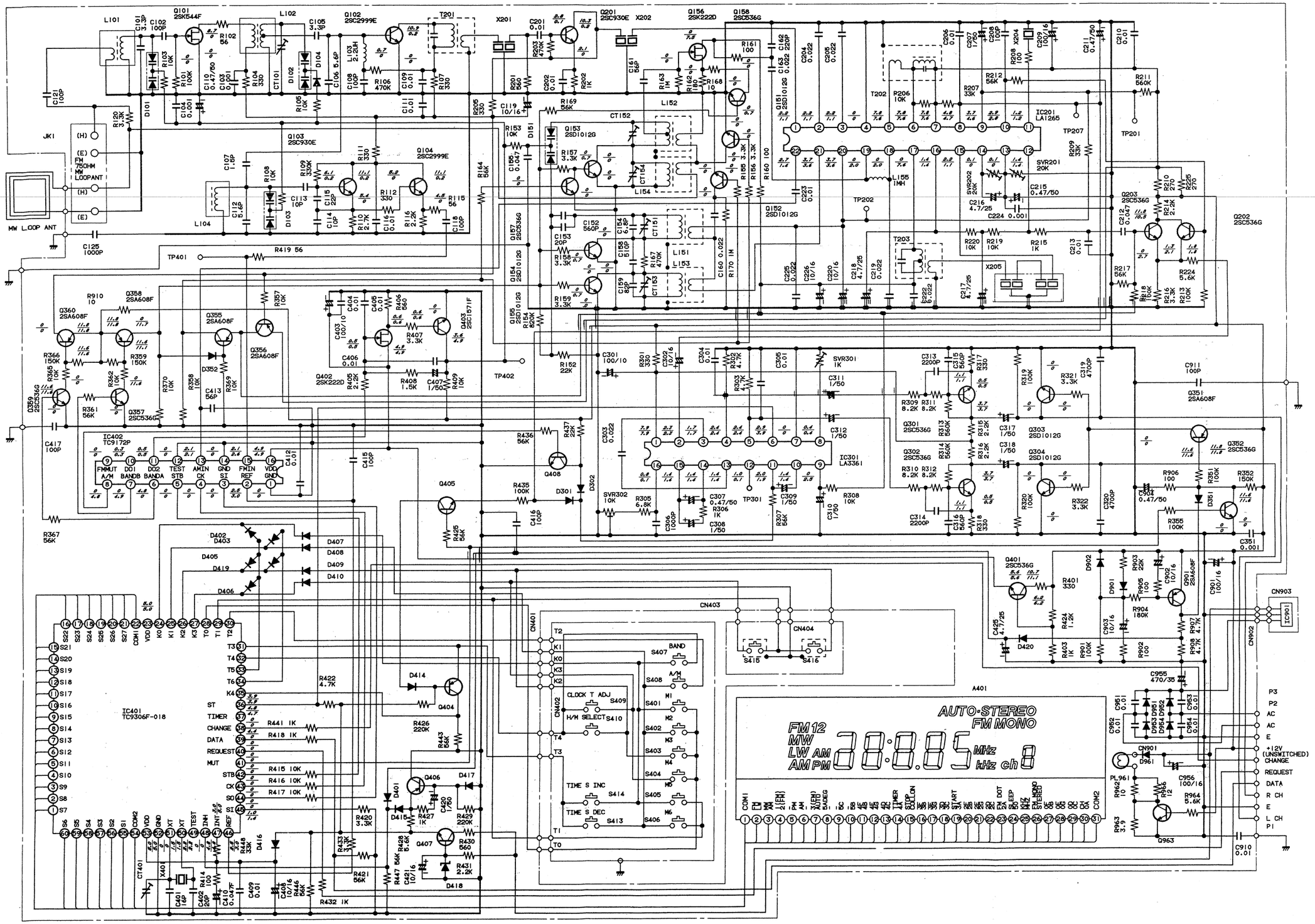
SCHEMATIC DIAGRAM (TUNER) (EUROPE/SPAIN)



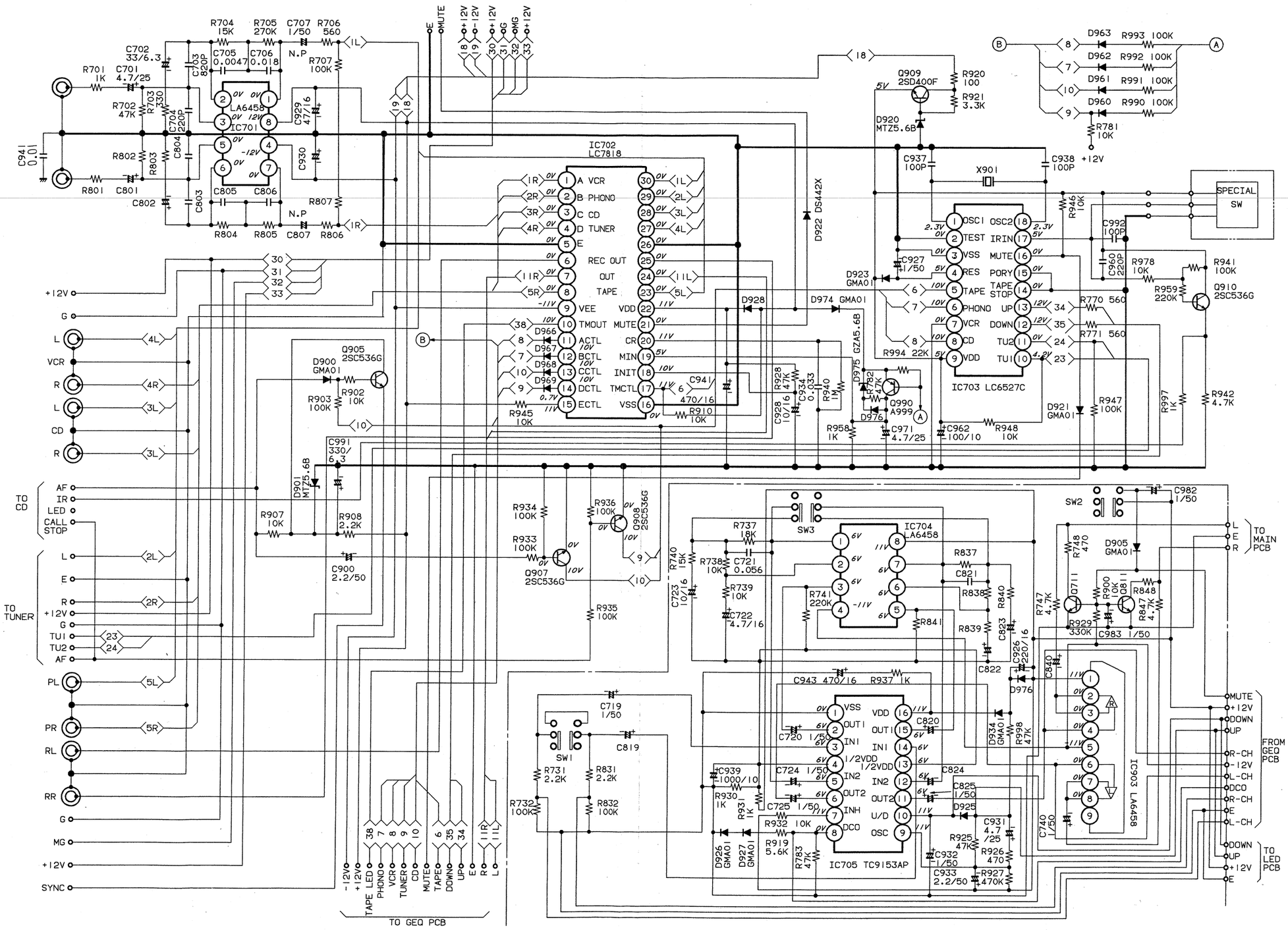
SCHEMATIC DIAGRAM (TUNER) (W. GERMANY)



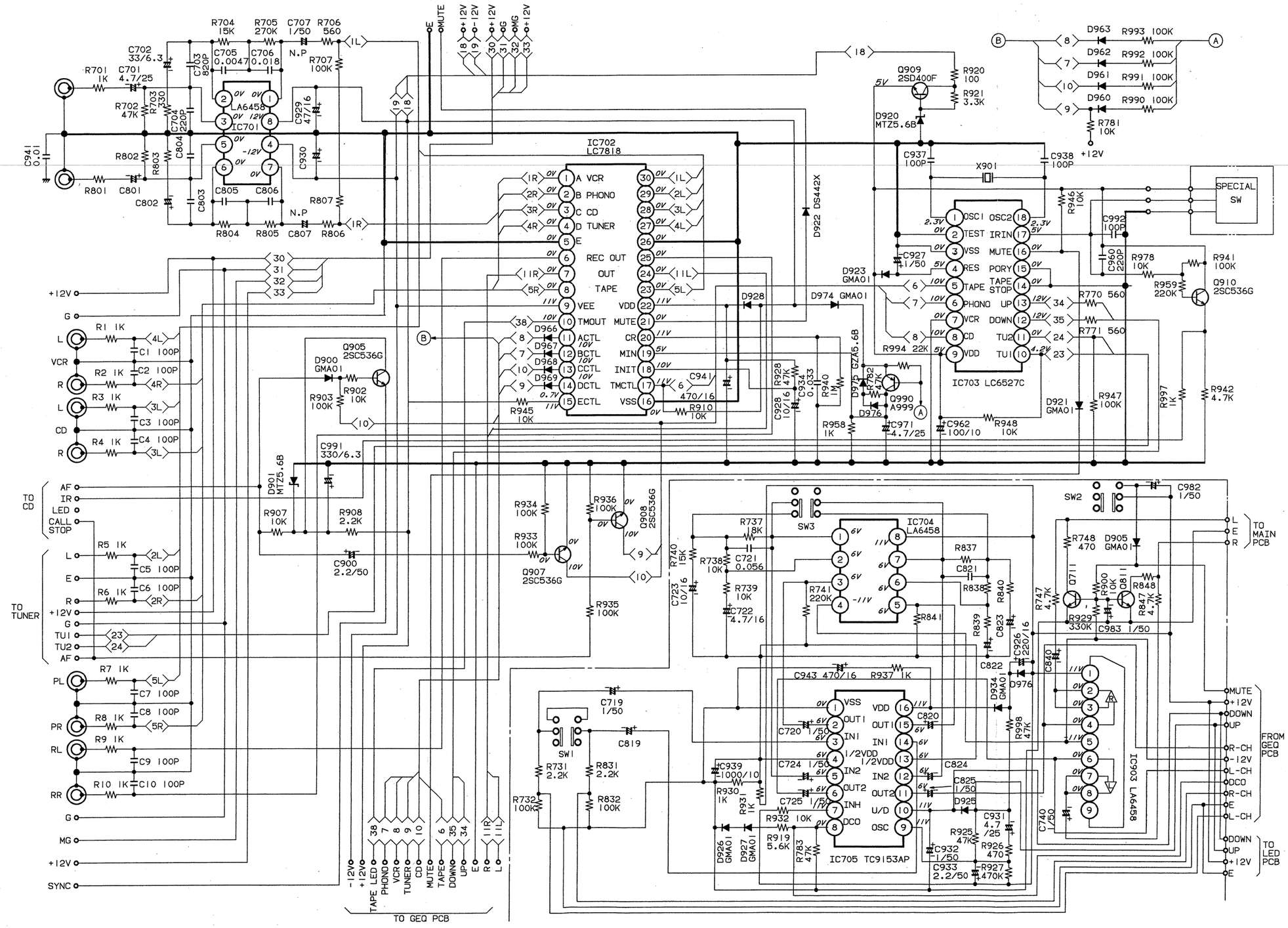
SCHEMATIC DIAGRAM (TUNER) (ITALY)



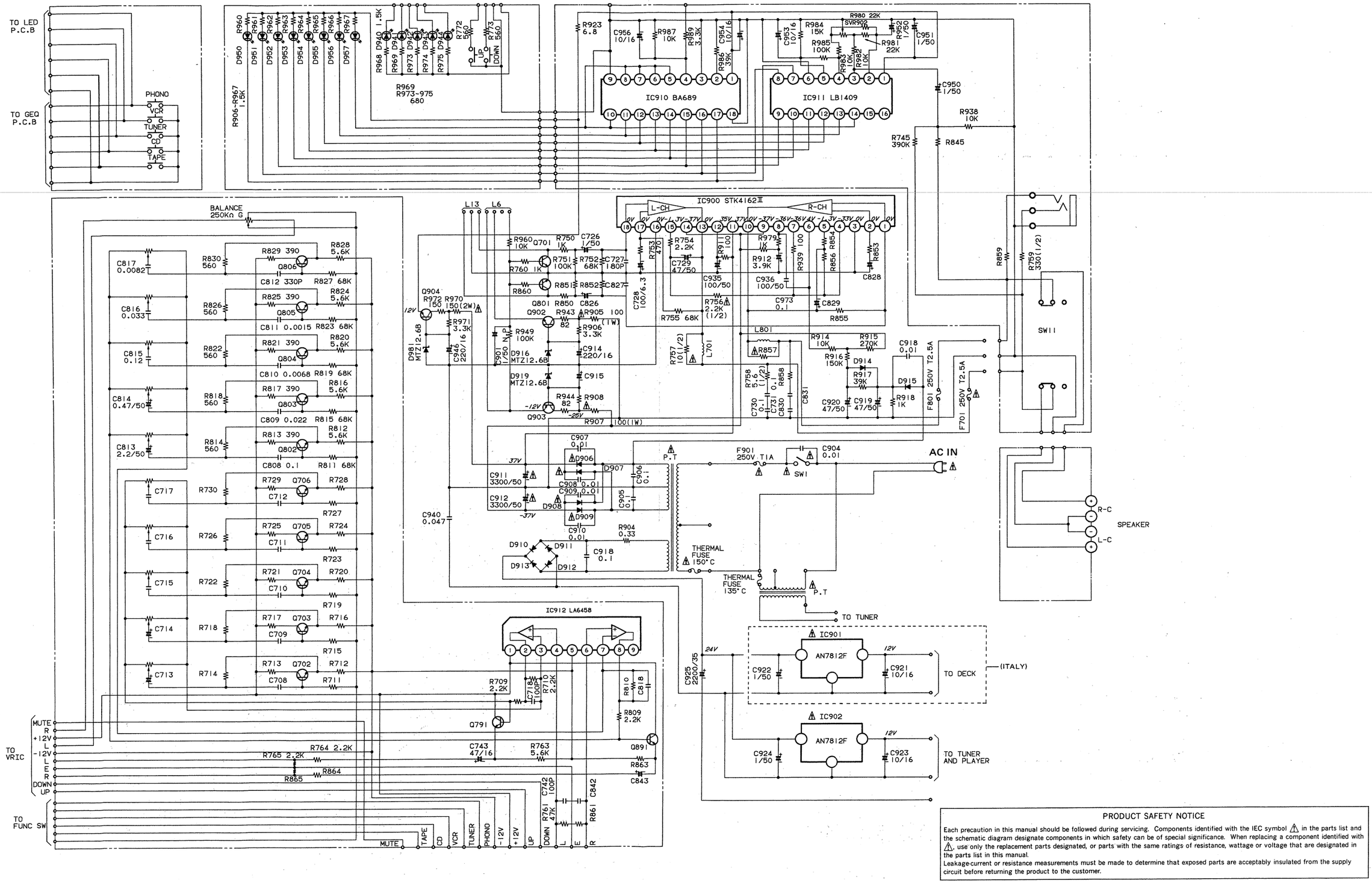
SCHEMATIC DIAGRAM (PRI AMP) (EUROPE/SPAIN/ITALY)



SCHEMATIC DIAGRAM (PRI AMP) (W. GERMANY)

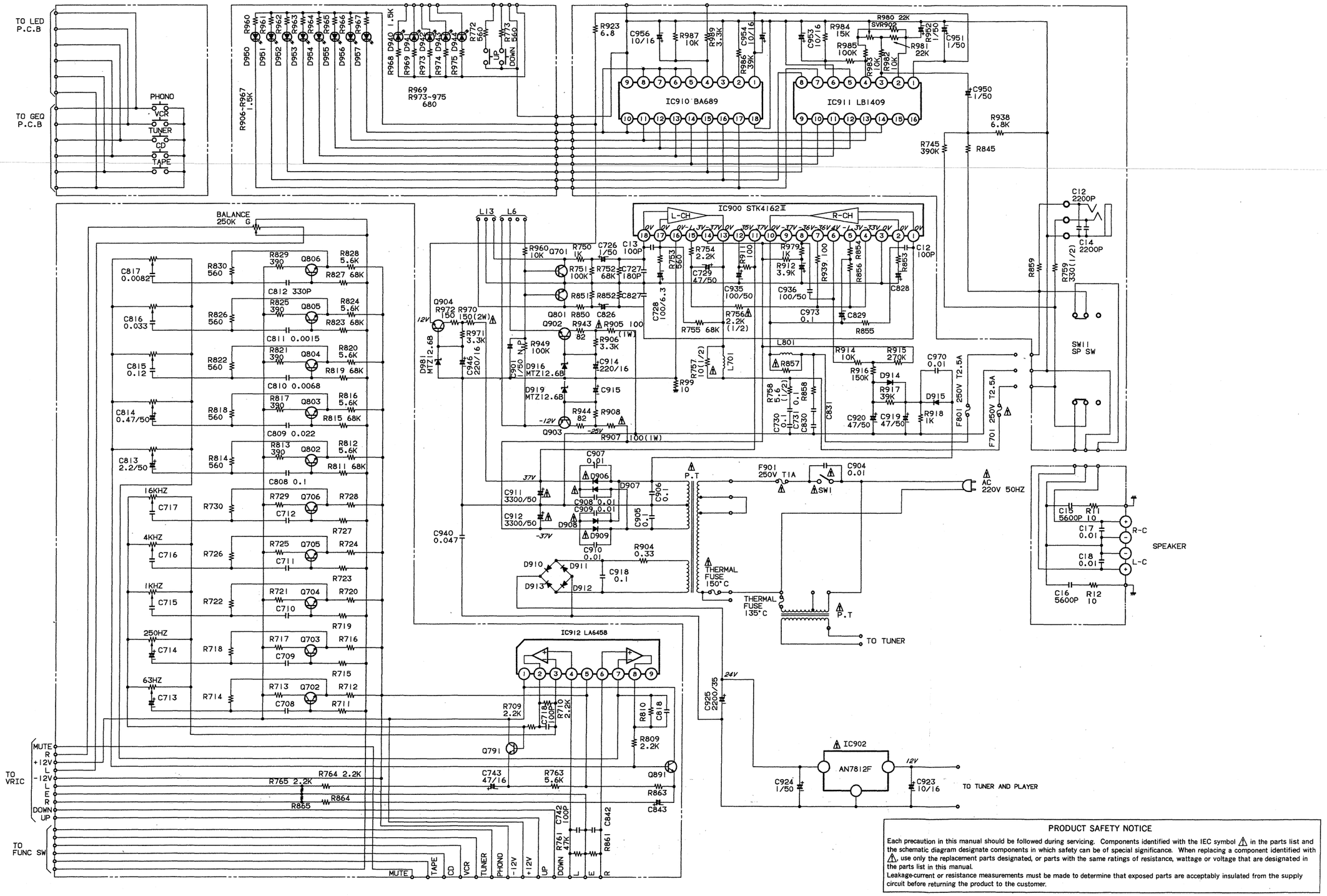


SCHEMATIC DIAGRAM (MAIN AMP) (EUROPE/SPAIN/ITALY)



PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.



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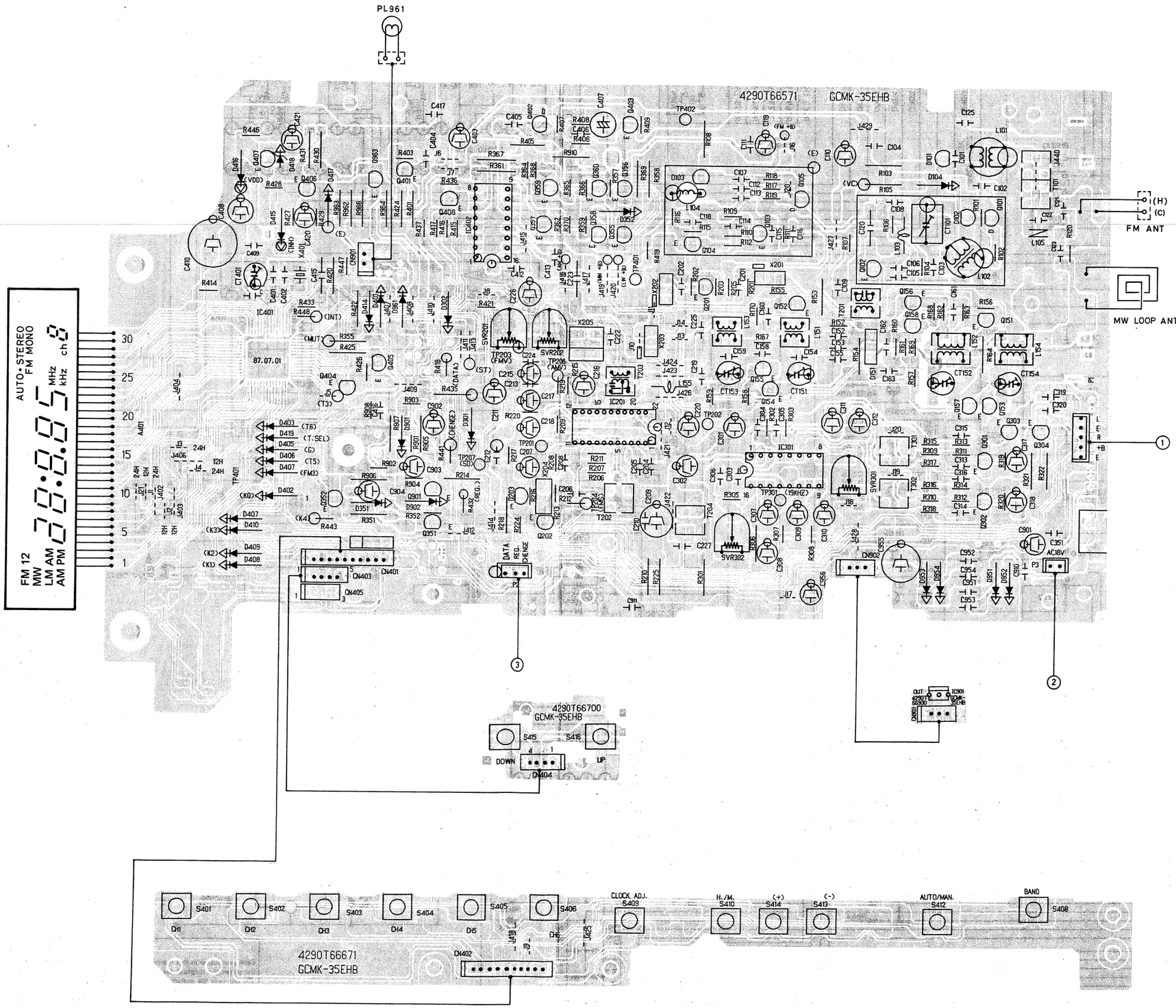
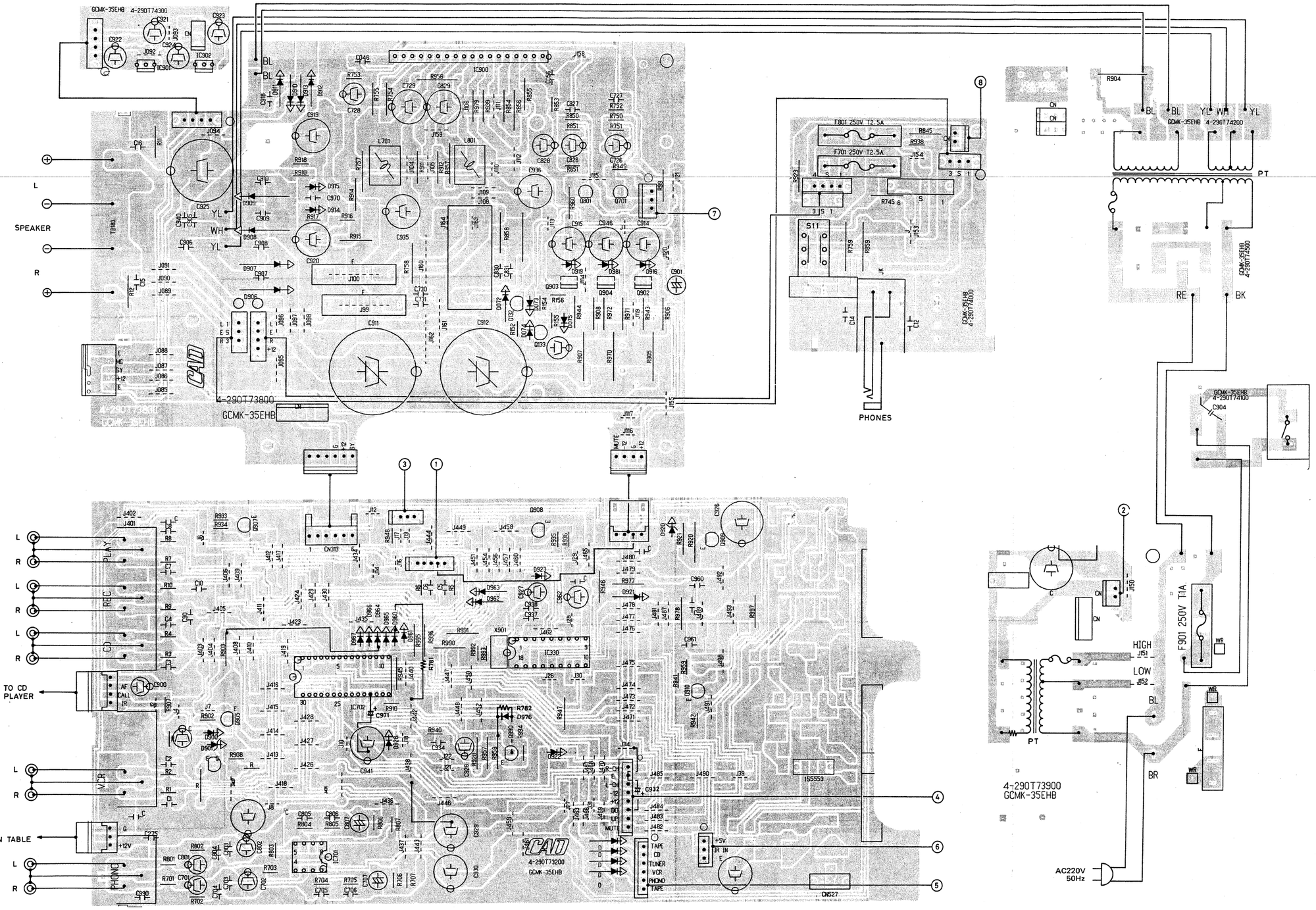
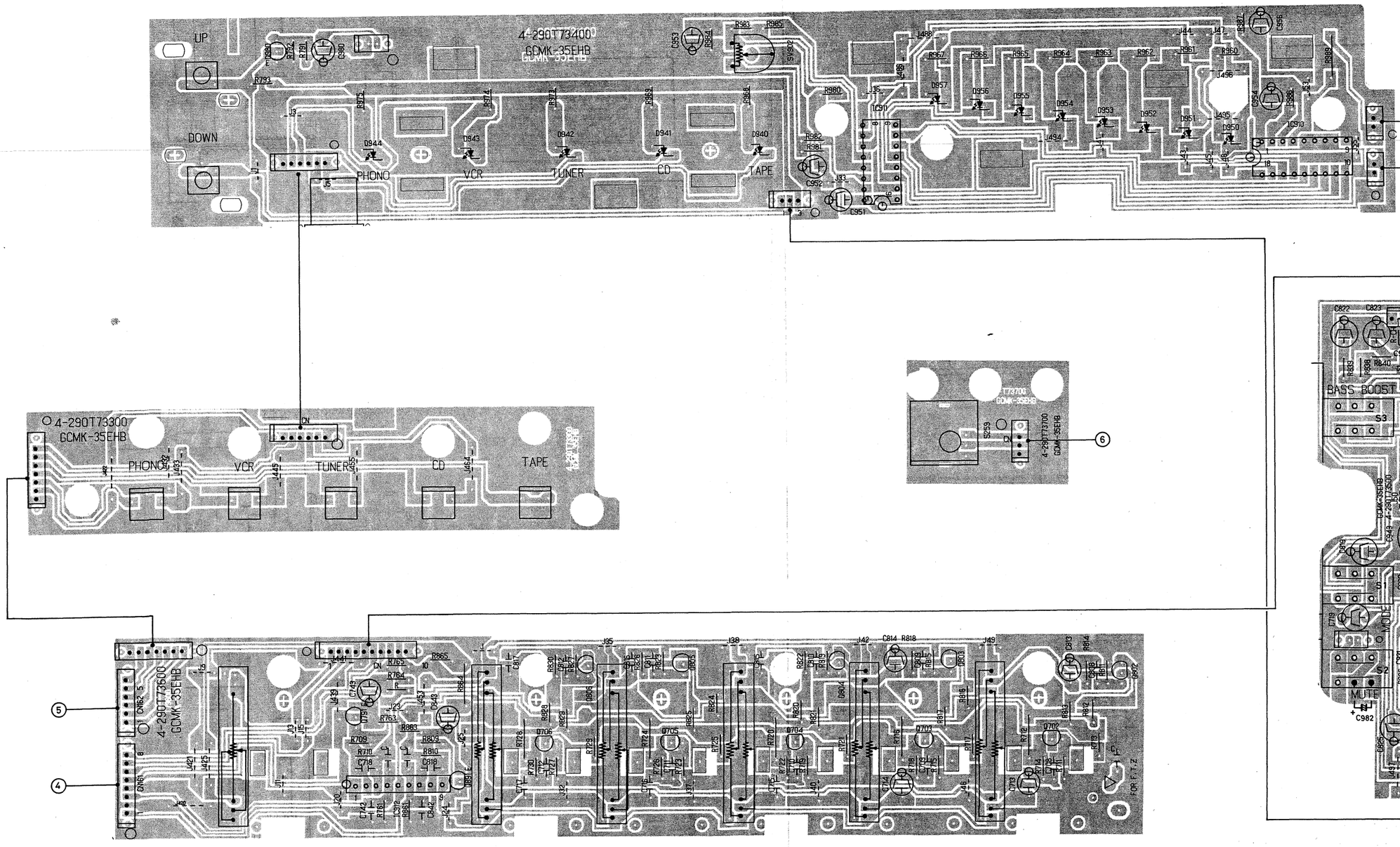

PL961
4290T66571 GCMK-35EHB
AUTO·STEREO
FM MONO
MHz
kHz
ch
87.07.01
FM 12
MW
LM AM
AM PM
FM ANT
MW LOOP ANT
4290T66700
GCMK-35EHB
S415
S416
DOWN
UP
CN404
4290T66671
GCMK-35EHB
CN402
S401
S402
S403
S404
S405
S406
CH1
CH2
CH3
CH4
CH5
CH6
CLOCK ADJ.
S409
H./M.
S410
(+)
S414
(-)
S413
AUTO/MAN.
S412
BAND
S408
CN403
CN401
CN405
SVR201
SVR202
SVR301
SVR302
IC401
IC201
IC301
CT151
CT152
CT153
CT154
CT1401
CT1101
DATA
REQ.
CHENGE
OUT
IC901
SDA5600
SDA5604


GCMK-35EHB 4-290T74300
4-290T73800
GCMK-35EHB
SPEAKER
L
R
PHONES
F801 250V T2.5A
F701 250V T2.5A
GCMK-35EHB 4-290T74200
P.T
GCMK-35EHB 4-290T74500
GCMK-35EHB 4-290T74000
RE
BK
GCMK-35EHB 4-290T74100
F901 250V T1A
HIGH
LOW
BL
BR
PT
4-290T73900
GCMK-35EHB
AC220V 50Hz
TO CD PLAYER
TO TURN TABLE
PLAY
REC
CD
AUX
PHONO
4-290T73200
GCMK-35EHB
TAPE
CD
TUNER
VCR
PHOND
TAPE
+5V
IR IN



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OSAKA, JAPAN

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